2510

XR-512R

SERVICE MANUAL

G-AEP Model

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
4 watts per channel minimum continous average power into 4 ohms, both channels driven from 150–20,000 Hz with no more than 1.5% total harmonic distortion.

OTHER SPECIFICATIONS

Power amplifier section

Outputs	Speaker outputs (sure seal connectors) Preamp outputs (phono jacks)
Speaker impedance	4–8 ohms
Maximum power output	6 watts per channel at 4 ohms* *Measured at 14.4 V

Cassette player section

Tape	Prerecorded tape cassette
Head	Playback head
Tape track	4-track 2-channel stereo
Frequency response	40–16,000 Hz
Signal-to-noise ration	With type I cassette 55 dB (A-weighted)
Wow and flutter	0.15% (WRMS)
Fast winding time	Approx. 130 sec. (with Sony C-60 cassette)
Crosstalk	Between channels: better than 40 dB

Tuner section

System	Superheterodyne tuner Computerized quartz-locked synthesizer system
Antenna terminal	FM/AM external antenna connector FM/AM power anttena relay control lead

Model Name Using Similar Mechanism	XR-510R
Tape Transport Mechanism Type	MG-48-83

FM tuner section

Tuning range	87.5–108 HMz
Intermediate frequency	10.7 MHz
Usable sensistivity	15 dBf (75 ohms)
Sensitivity at 50 dB quieting	20 dBf (75 ohms)
Selectivity	70 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.4% (stereo), 0.2% (mono)
Separation	40 dB at 1 kHz
Frequency response	30–15,000 Hz (±3 dB)
Capture ratio	2.0 dB

AM tuner section

Tuning range	522–1,620 kHz
Intermediate frequency	450 kHz
Sensitivity	35 μV

– Continued on Page 2 –

MICROFILM

FM/AM CASSETTE CAR STEREO

SONY®

AUD

2510

General

Time display system	
	24-hour display
Tone controls	Bass ±8 dB at 100 Hz
	Treble ±8 dB at 10 kHz
Output lead	Power antenna relay control lead
Power requirements	
	12 V dc car battery (negative ground)
Current drain	1.6 A (at maximum output)
Dimensions	Approx. 178 x 50 x 150 mm (w/h/d)
	($7^1/_8$ x 2 x 6 inches)
	not incl. projecting parts and controls
Mounting dimensions	
	Approx. 178 x 50 x 135 mm (w/h/d)
	($7^1/_8$ x 2 x $5^3/_8$ inches)
	not incl. projecting parts and controls
Weight	Approx. 1.4 kg (3 lb 2 oz)

FEATURES

- The auto-reverse function changes the tape direction automatically.
- Automatic Music Sensor (AMS) function allows either automatic playback from the beginning of the selection being played or skipping to the beginning of the next selection.
- The quartz-locked digital synthesizer system permits easy and accurate tuning.
- During FM reception, the built-in INS (Impulse Noise Suppressor) circuit eliminates strong pulse noise. The built-in hi-cut, hi-blend and soft muting circuits eliminate the noise in FM reception caused by signal fading and multipath distortion.
- Traffic information can be received.
- Separate bass and treble controls.
- For playback with a 4-speaker system, the fader control is furnished.
- Preamp outputs for connecting a power amplifier for a powerful 4-speaker system.

MELF (Metal Electrodes Face-Bonding) Components

Warning

If MELF components are forcibly removed from the printed circuit board with pincers or pliers, the circuit board pattern is likely to peel away. Always remove MELF components according to the procedure described on the next page.

MELF components are soldered directly to the surface of the printed circuit board.

MELF resistors and capacitors have the same dimensions and are distinguished by their background colors: light brown for resistors, and pink or light green for capacitors.

The MELF resistor color coding is the same as for conventional resistors, and MELF capacitor color coding is the same as for tube-type ceramic capacitors.

Components larger than resistors and without a color code are cross conductors, which are used instead of jumper wires.

1. Structure

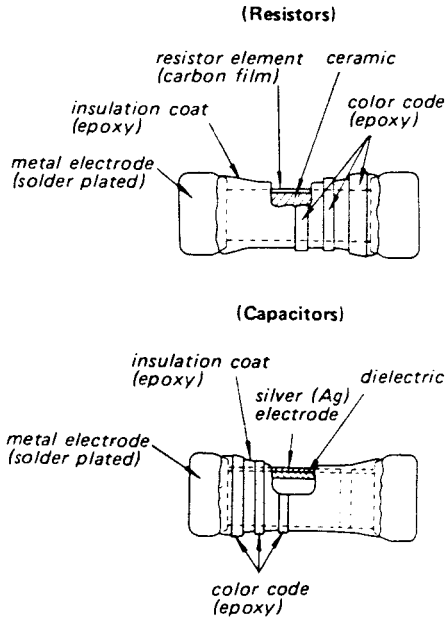
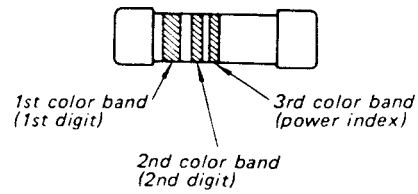
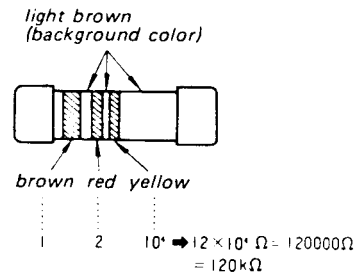


Fig. 1

2. Color Code Reading



(Example of Resistor)



(Example of Capacitor)

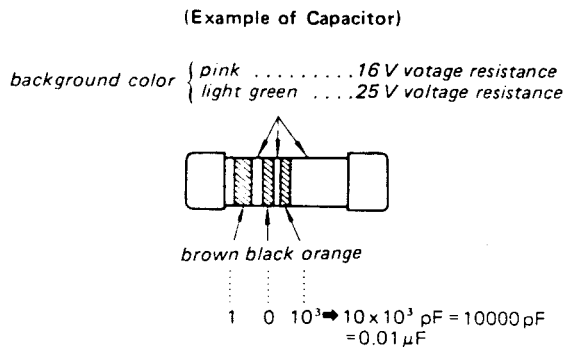

background color
pink .....16 V votage resistance
light green ....25 V voltage resistance
brown black orange
1 0 10³ ➡ 10×10³ pF = 10000pF
=0.01μF

Fig. 2

3. How to Remove MELF Components and Mount Replacements

Use a soldering iron of at least 40W with an iron tip 4 mm in diameter and file the tip down to the angle shown in the diagram.

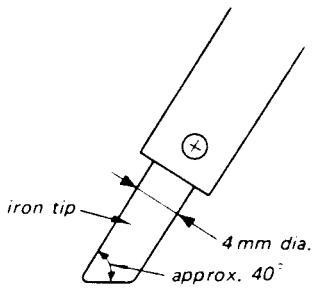


Fig. 3

1. Bring the flat surface of the soldering iron in equal contact with both soldered ends of the component.
2. The solder should melt in about 4 seconds. (The solder will melt more readily if a small amount of solder is attached to the iron tip and the iron tip is placed against the component.)
3. Once the solder has melted, tap the component aside with the tip of the soldering iron, and remove it from the board.

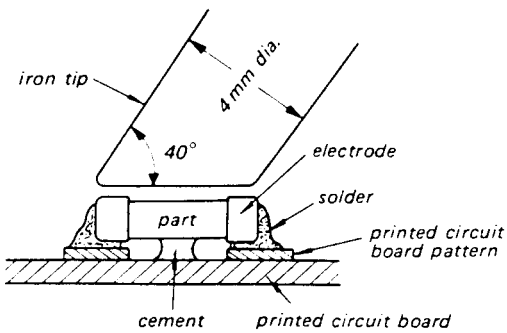


Fig. 4

4. Use lead type resistors to replace the MELF components.
   This replacement may be mounted with short leads (See Fig.5).

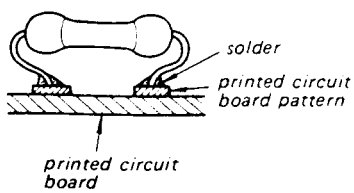


Fig. 5

Note: Use 3216 type chip components to replace the MELF capacitor components.
See page 4, 5 for mounting of chip components.

Replacing Chip Components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

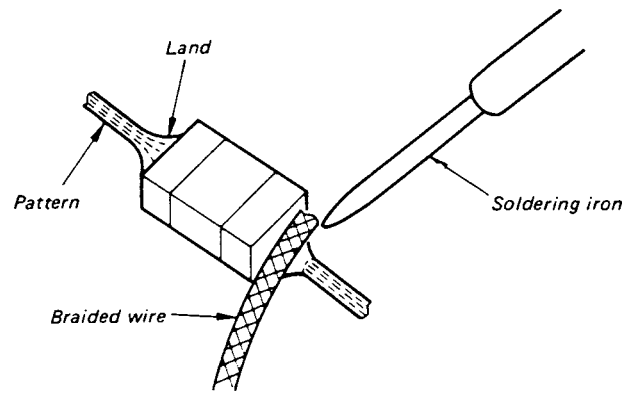
Precautions for replacement

1. **Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.**
2. **Never re-use a disconnected chip component. Dispose of all old chip components.**
3. **To protect the chip component, heating time for attaching the component should be within 3 seconds.**

○ Removing chip components

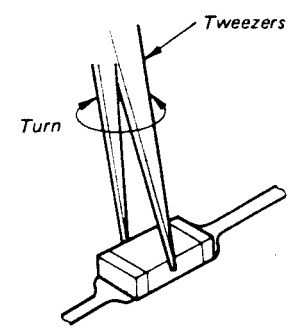
(1) Removing solder at electrode

Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off.
Never re-use a disconnected chip component.

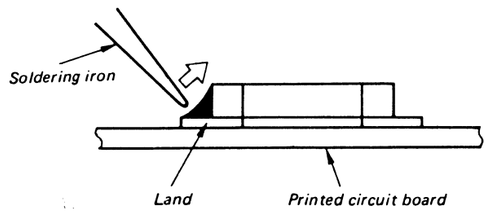


(3) Smoothing the soldered surface
After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

○ Connecting chip components
The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

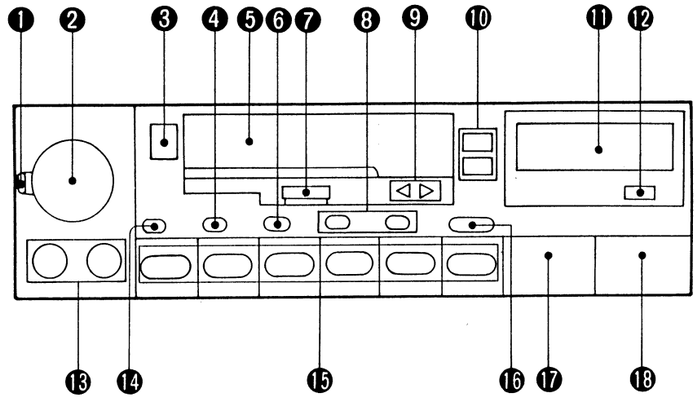
(1) Applying solder to land on one side
Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.

(2) Speedy soldering
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side
Solder the electrode on the other side in the same way as in (2) above.

LOCATION AND FUNCTION OF CONTROLS



❶ FADER control
When the unit is used in a 4-speaker system, turn counterclockwise to decrease the volume of the front speakers. Set to the center position when the unit is used in a 2-speaker system.

❷ VOL (volume) / PUSH RADIO / PULL BAL (balance) control
Turn clockwise for more volume.
Press to turn on the radio.
Pull out and turn to adjust the balance of the right and left channels.

❸ ⏏ EJECT button
Depress to stop tape transport and to take out the cassette.

❹ MONO button and indicator
Press if noise makes it difficult to hear the FM stereo program. The red MONO indicator will change to green. The STEREO indicator on the display window will disappear.

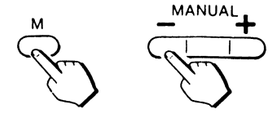
❺ Cassette insertion door

❻ LOCAL button and indicator
Press to receive only strong signal stations or to receive an AM station at night. The red LOCAL indicator will change to green.

HOW TO SET THE CLOCK

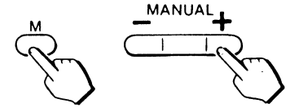
When the car ignition key is turned on, the time digits are displayed on the display window.

TO SET HOUR DIGITS



While pressing, Press the – side.

TO SET MINUTE DIGITS



While pressing, Press the + side.

Each time the – or + side of the MANUAL button is pressed, the digit is increased. When the button is kept pressed, the digits are rapidly advanced.

Zero second adjustment
Example: To set to 9:00 to the second
1 Adjust the time indication to 9:59 as described before.
2 As soon as you hear the time signal on the telephone, radio or TV, while pressing the M button, press the + side of the MANUAL button.

❼ AMS (automatic music sensor) button
Depress to search for the beginning of a selection.

❽ MANUAL (– and +) buttons
Press to manually tune in the station.
Press also for clock setting.

❾ ◀ ▶ (direction) indicators
The ▶ shows the playback of the upper side of the cassette, and the ◀ the lower side.

❿ ▶▶ and ◀◀ (fast forward and rewind) buttons

⓫ Display window

⓬ DISPLAY button
Press to display time indication during radio reception.
Press again to resume the frequency indication.

⓭ BASS and TREBLE controls
Press so that the controls pop out, and turn clockwise to increase the bass or treble response. Depress when the adjustment is completed.

⓮ M (memory) button
Press to memorize the frequency during radio reception.
Press also for clock setting.

⓯ Preset buttons
Press to memorize the frequency or to receive a preset station.

⓰ SDK button
Press to receive traffic information.

⓱ BAND button
Press to select the desired band.

⓲ SEEK button
Press for automatic tuning.

English

INSTALLATION

CAUTION

- Avoid installing the unit where:
  - It would be subject to high temperatures, such as from direct sunlight or from hot air from the heater.
  - It would be exposed to rain or moisture.
  - It would be subject to dust or dirt.
- Use only the supplied mounting hardware for a safe and secure installation.
- The wired remote controller can be fixed on the dashboard etc., with the supplied adhesive tapes.
  Do not install the wired remote controller device either on or near the steering wheel or gear shift of your car.

To remove the cord connector
Push in the clips and pull out the cord.

Deutsch

INSTALLATION

ACHTUNG

- Die Einheit nicht an folgenden Plätzen installieren:
  - Plätze, die hohen Temperaturen (direkte Sonneneinstrahlung, Warmluft von Heizung) ausgesetzt sind.
  - Plätze, die Regen oder Feuchtigkeit ausgesetzt sind.
  - Staubige oder schmutzige Plätze.
- Für sicheren und stabilen Einbau verwenden Sie ausschließlich das mitgelieferte Befestigungsmaterial.
- Die Steuereinheit kann mit dem mitgelieferten Klebebändern beispielsweise am Armaturenbrett befestigt werden.
  Bringen Sie die Steuereinheit nicht auf oder zu dicht neben dem Lenkrad oder dem Schaltknüppel an.

Abtrennen des Kabelanschlusses
Drücken Sie die Klemmen und ziehen Sie das Kabel ab.

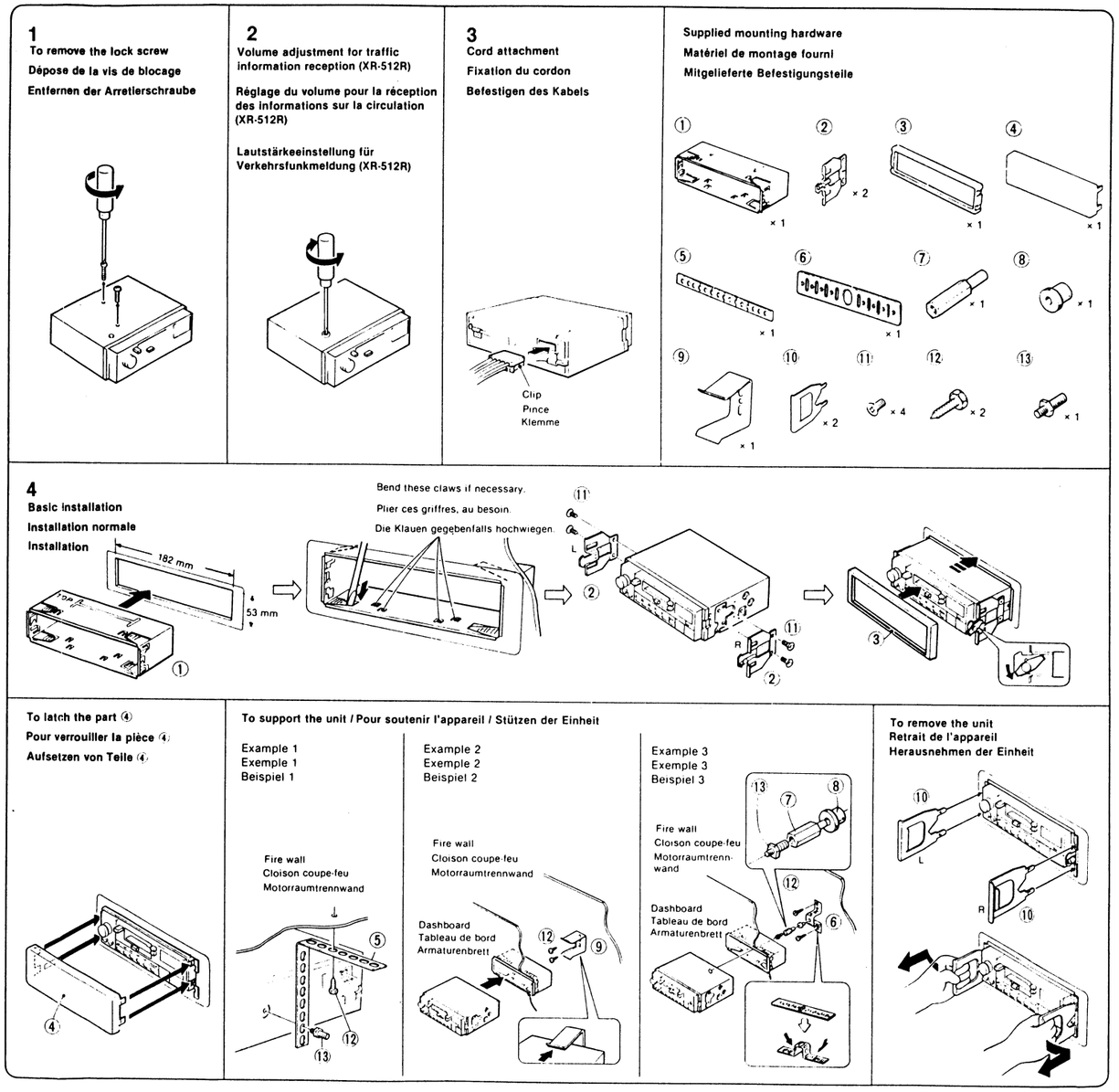
Français

INSTALLATION

PRECAUTIONS

- Eviter d'installer l'appareil là où il serait soumis:
  - A de hautes températures, telles que celles des rayons du soleil ou de l'air provenant du circuit de chauffage
  - A la pluie ou à de l'humidité
  - A de la poussière ou à de la boue.
- Pour obtenir une installation sûre et solide, se servir uniquement du matériel de montage fourni.
- La télécommande à fil peut être fixée sur le tableau de bord avec le ruban adhésif fourni.
  Ne pas installer la télécommande à fil sur ou près du volant ou bien près du levier de changement de vitesse.

Dépose du cordon de connexion
Enfoncer les pinces et tirer sur le cordon.



English

CONNECTIONS

CAUTION

- This unit is designed for negative ground 12 V dc operation only.
- Use speakers with an impedance of 4 to 8 ohms.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads have been connected.
- Run all ground wires to a common ground point.
- Keep the gray and orange leads connected, otherwise the unit may malfunction.
- Be sure to use speakers with adequate power handling capacities. If this precaution is not observed, the speakers will be damaged.
- Do not connect the ⊖ terminal of the speaker system with the car chassis, and do not connect the ⊖ terminal of the right speaker with that of the left speaker.
- Do not attempt to connect the speakers in parallel.
- To use the unit in a 2-speaker system, use either pair of front speaker cords or rear speaker cords, and leave the another pair free.
- When the power amp connecting cord is not used, cover the jacks with the plug covers to avoid short circuits.

Deutsch

ANSCHLÜSSE

ACHTUNG

- Dieses Gerät ist für eine negativ geerdete 12-V-Autobatterie bestimmt.
- Die Lautsprecher müssen eine Impedanz von 4 bis 8 Ohm aufweisen.
- Trennen Sie den Erdungsanschluß der Autobatterie ab, bevor Sie irgendwelche Anschlüsse vornehmen, um Kurzschlüsse zu vermeiden.
- Schließen Sie das **rote** Stromversorgungskabel erst an, wenn alle anderen Anschlüsse hergestellt sind.
- Führen Sie alle Erdungskabel an einen gemeinsamen Massepunkt.
- Trennen Sie die grauen und orangefarbenen Kabel nicht ab, da das Gerät sonst nicht einwandfrei arbeitet.

Français

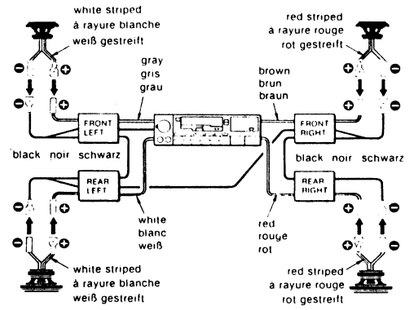
BRANCHEMENTS

ATTENTION

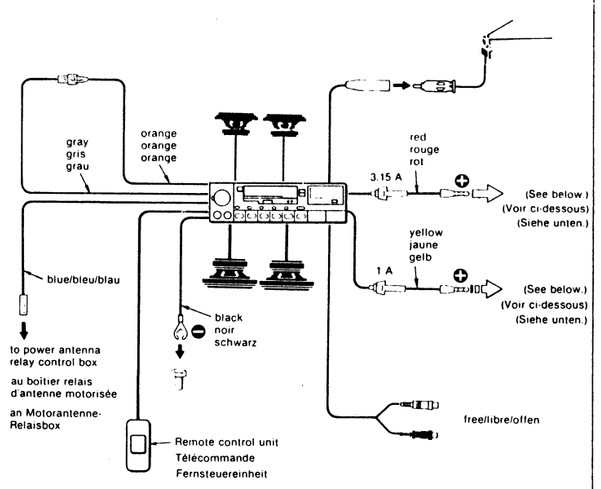
- Cet appareil est conçu pour fonctionner sur courant continu de 12 V à mise à la masse négative uniquement.
- Utiliser des haut-parleurs d'une impédance allant de 4 à 8 ohms.
- Avant les branchements, débrancher la borne de masse de la batterie de voiture pour éviter les court-circuits.
- Ne brancher le fil d'entrée d'alimentation **rouge** qu'après que tous les autres fils sont connectés.
- Fixer tous les fils de masse sur un point de masse commun.
- Garder les fils gris et orange connectés, sous peine d'un mauvais fonctionnement.
- Veiller à utiliser des haut-parleurs ayant une puissance correspondant à l'amplificateur. Dans le cas contraire, ceux-ci pourraient être endommagés.
- Ne jamais brancher la borne négative ⊖ du haut-parleur au châssis, et la borne négative ⊖ du haut-parleur droit à celle du haut-parleur gauche.
- Ne pas tenter de brancher les haut-parleurs en parallèle.
- Pour utiliser l'appareil dans un système à 2 haut-parleurs, utiliser soit la paire de cordon de haut-parleurs avant, soit la paire arrière et laisser l'autre libre.
- Si le cordon de connexion de l'amplificateur de puissance n'est pas utilisé, couvrir les prises avec les caches de fiche pour éviter des courts-circuits.

- Verwenden Sie nur Lautsprecher ausreichender Leistung. Zu schwach bemessene Lautsprecher könnten beschädigt werden.
- Verbinden Sie den ⊖ Anschluß des Lautsprechersystems nicht mit dem Autochassis und verbinden Sie den ⊖ Anschluß des linken Lautsprechers nicht mit dem des rechten Lautsprechers.
- Schließen Sie die Lautsprecher nicht parallel an.
- Bei Verwendung eines 2-Lautsprecher-Systems verwenden Sie entweder das Kabelpaar für die Front- oder für die Hecklautsprecher und lassen Sie das jeweils andere Paar frei.
- Wenn das Anschlußkabel des Endverstärkers nicht angeschlossen ist, sind die Buchsenkappen anzubringen, um einen Kurzschluß zu vermeiden.

Speaker connection / Connexion d'un haut-parleur / Lautsprecheranschluß



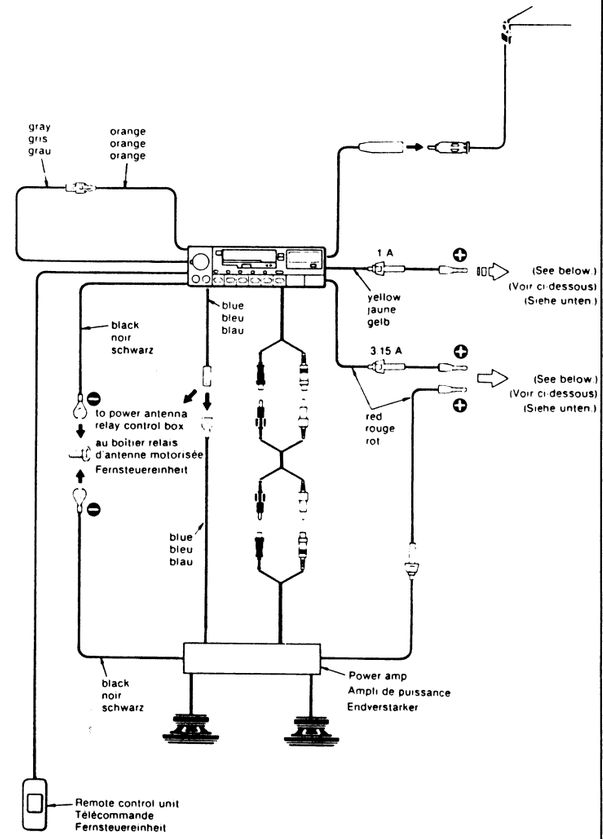
4- or 2-speaker connection
Connexions pour 4 ou 2 haut-parleurs
Anschluß eines 4- oder 2-Lautsprecher-Systems



2-speaker connection
—using an add-on power amp equipped with auxiliary input lead

Connexions pour 2 haut-parleurs
—utiliser un ampli de puissance d'appoint, muni d'un conducteur d'entrée auxiliaire

Anschluß eines 2-Lautsprecher-Systems
—Bei Verwendung eines Zusatzverstärkers mit zusätzlicher Eingangsleitung.



to the ⊕ 12 V power terminal which is energized in the accessory position of the ignition key
à la borne d'alimentation 12 V ⊕ sous tension à la position accessoire de la clé de contact
An ⊕ 12 V Anschluß des Bordnetzes, der bei eingeschalteter Zundung unter Strom steht.

to the ⊕ 12 V power terminal which is energized at all times
à la borne d'alimentation 12 V ⊕ qui est toujours sous tension
An ⊕ 12 V Anschluß des Bordnetzes, der immer unter Strom steht.

red: power input lead
yellow: power input lead
blue: remote control lead
black: ground wire

rouge: fil d'entrée d'alimentation
jaune: fil d'entrée d'alimentation
bleu: fil de la télécommande
noir: fil de masse

Rot: Stromversorgungsleitung
Gelb: Stromversorgungsleitung
Blau: Fernsteuerleitung
Schwarz: Erdungsleitung

SECTION 1
ADJUSTMENTS

1-1. MECHANICAL ADJUSTMENTS

No mechanical adjustments applied to this unit.

Torque Measurement

	Torque meter	Meter reading
FWD	CQ-102C	35 – 65 g·cm (0.49 – 0.9 oz·inch)
FF/REW	CQ-201B	More than 60 g·cm (More than 0.83 oz·inch)

1-2. ELECTRICAL ADJUSTMENTS

- Switches and controls should be set as follows unless otherwise specified.

PUSH RADIO switch:	RADIO
VOL CONTROL:	mechanical mid
PULL BALANCE control:	center click
FADER control:	center click
BASS control:	center click
TREBLE control:	center click
LOUD switch:	OFF

TAPE SECTION

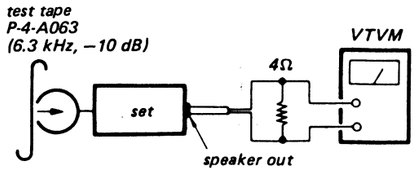
Playback Head Azimuth Adjustment

Setting:

METAL switch: normal

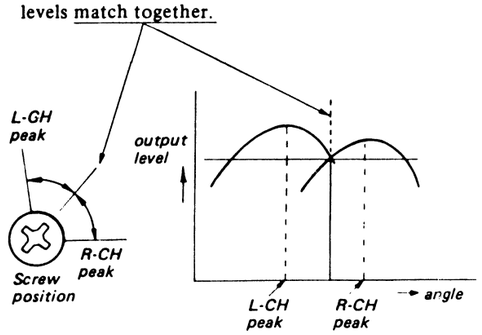
Procedure:

1. Mode: forward playback

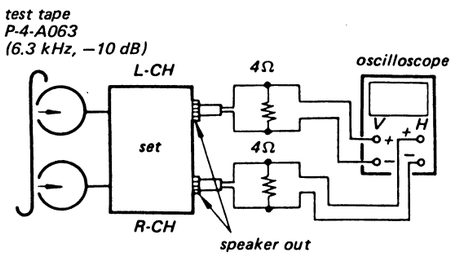


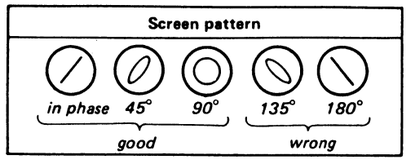
Adjust for forward (▶) direction and reverse (◀) direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together.



3. Phase Check
Confirm that phase difference between L-channel and R-channel is within 90°.

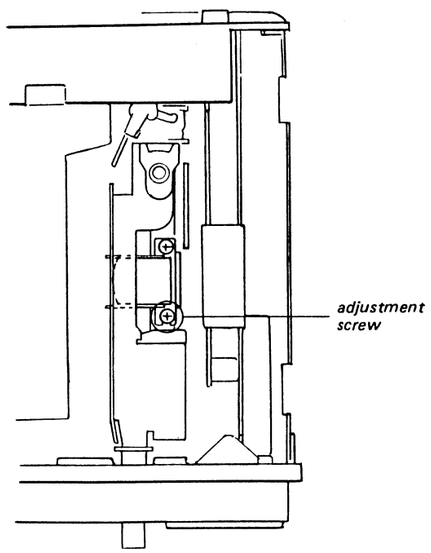




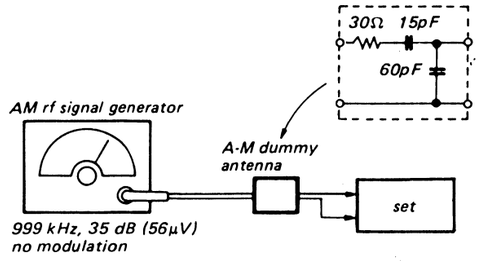
4. Perform steps 1-3 in reverse playback mode, and adjust the adjustment screw until output level of both forward and reverse playback modes matches together.

5. After the adjustment, lock the screws with locking compound.

Adjustment Location:



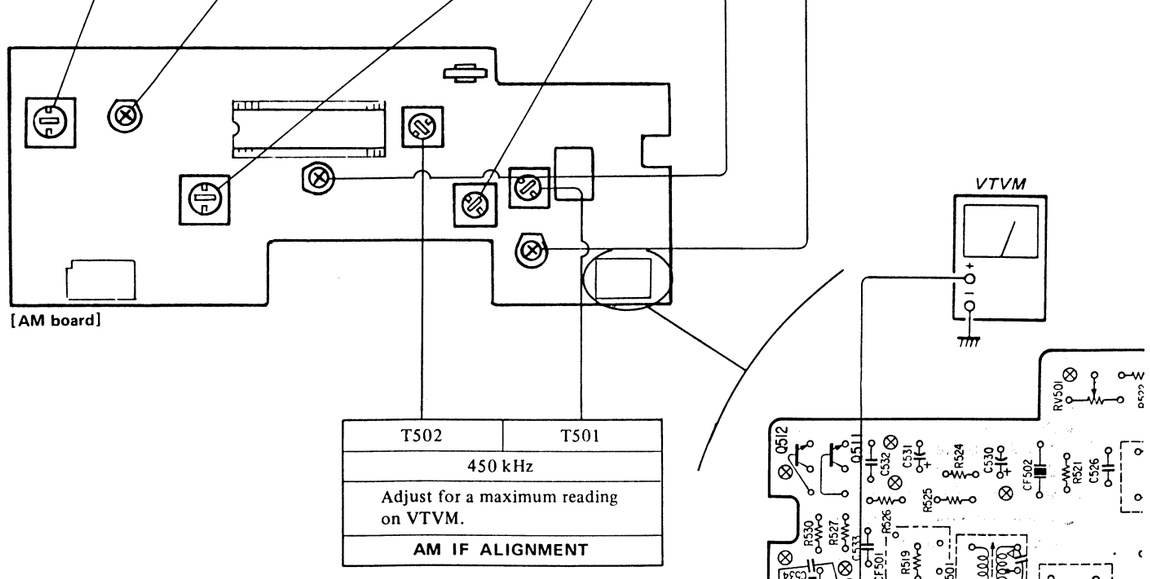
AM SECTION



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
522 kHz	1,620 kHz
L509	CT503

MW TRACKING ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
603 kHz		1,404 kHz	
L505	L507	CT501	CT502

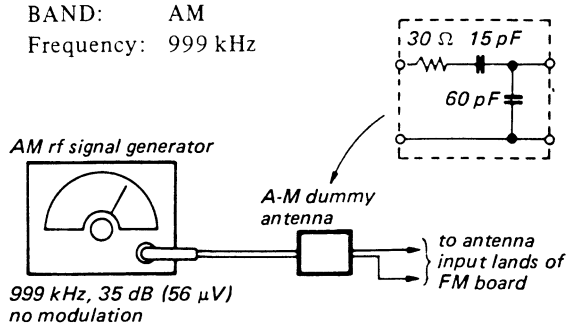


T502	T501
450 kHz	
Adjust for a maximum reading on VTVM.	
AM IF ALIGNMENT	

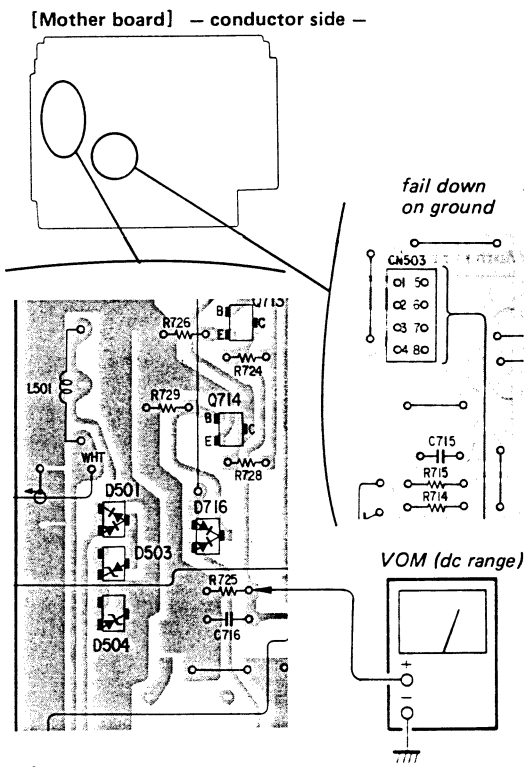
AM Auto-scan Stop Level Adjustment

Setup:

BAND: AM
Frequency: 999 kHz



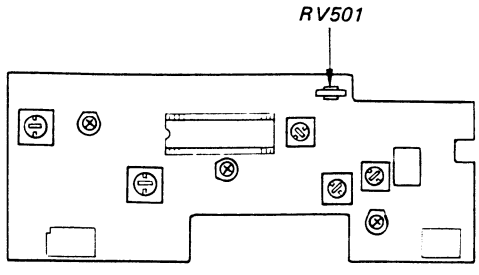
[Mother board] — conductor side —



Procedure:

1. Adjust and set RV501 at the point where voltage reading suddenly changes from low to high.
2. Change the AM rf signal generator output and confirm that the point where voltage reading suddenly changes is 35 ±5 dB (30 dB to 40 dB).

Adjustment Location: AM board



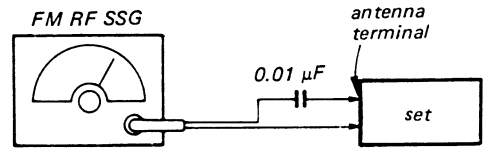
FM SECTION

The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.

Clock Frequency Adjustment

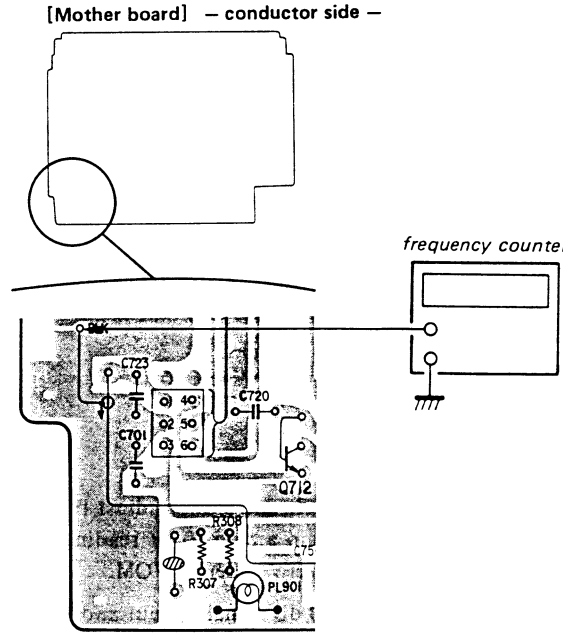
Setup:

BAND: FM MONO



Carrier frequency: *98 MHz*
Mode: *monaural, no modulation*
Output level: *28 dB*

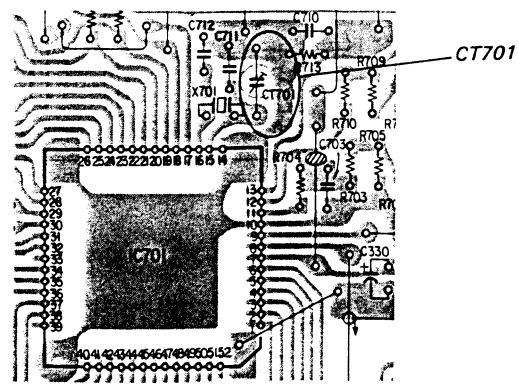
[Mother board] — conductor side —



Procedure:

1. Tune SET to 89.3 MHz.
2. Adjust CT701 to obtain a 100 MHz ±50 Hz reading on frequency counter.

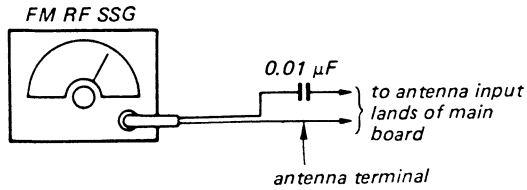
Adjustment Location: Mother board



FM Discriminator Adjustment

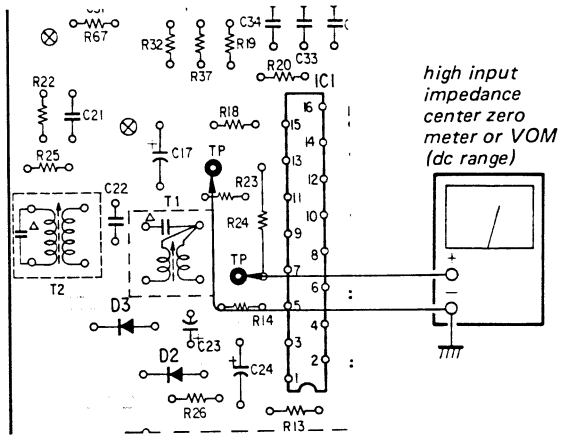
Setting:

BAND: FM MONO



Carrier frequency: *98 MHz*
Output level: *60 dB*
Modulation: *1 kHz, 75 kHz diviation (100%)*

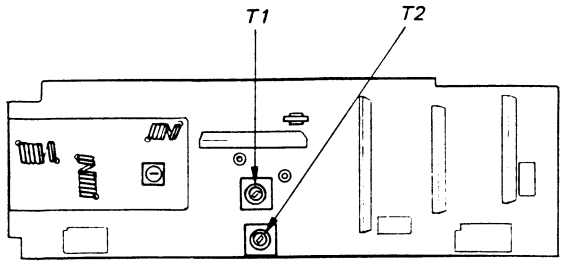
[FM board] — conductor side —



Procedure:

1. Turn SET to 98 MHz and slowly adjust the core of T1 (white) to obtain a zero (0) V reading on high impedance center zero meter or VOM.
2. Apply 98 MHz, 60 dB signal output and adjust T2 (blue) so that output distortion factor is minimum.

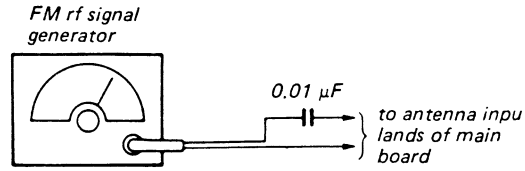
Adjustment Location: FM board



FM Auto-scan Stop Level Adjustment

Setup:

BAND: FM MONO
Frequency: 98 MHz

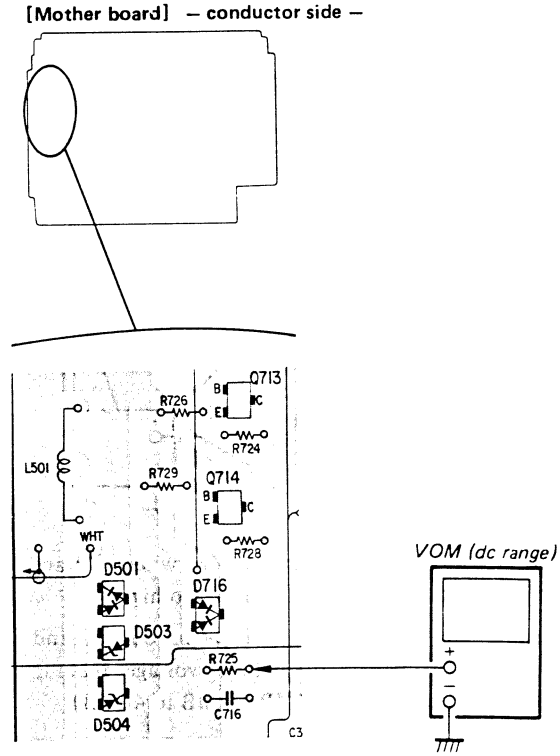


Carrier frequency: *98 MHz*
Mode: *monaural, no modulation*
Output level: *30 dB*

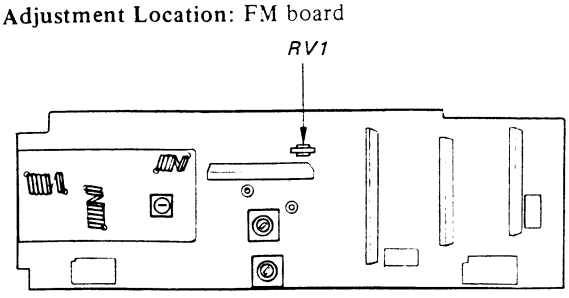
Procedure:

1. Adjust and set RV1 at the point where voltage reading suddenly changes.
2. Change the FM rf signal generator output and confirm that the point where voltage reading suddenly changes is 30 ±7 dB (23 dB to 37 dB).

[Mother board] — conductor side —



Adjustment Location: FM board



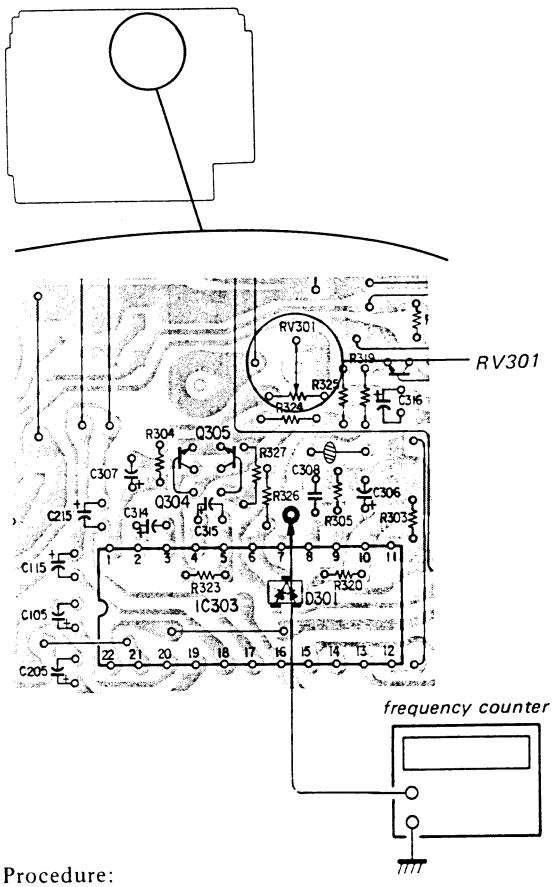
TRAFFIC INFORMATION SECTION

Traffic Information Frequency Adjustment

Setup:

BAND: FM
SDK switch: ON

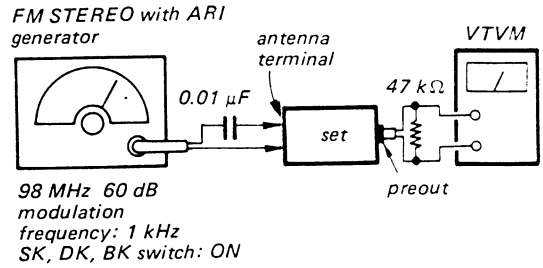
[Mother board] – Conductor Side –



Procedure:

Adjust RV301 to obtain a 125 Hz reading on frequency counter.

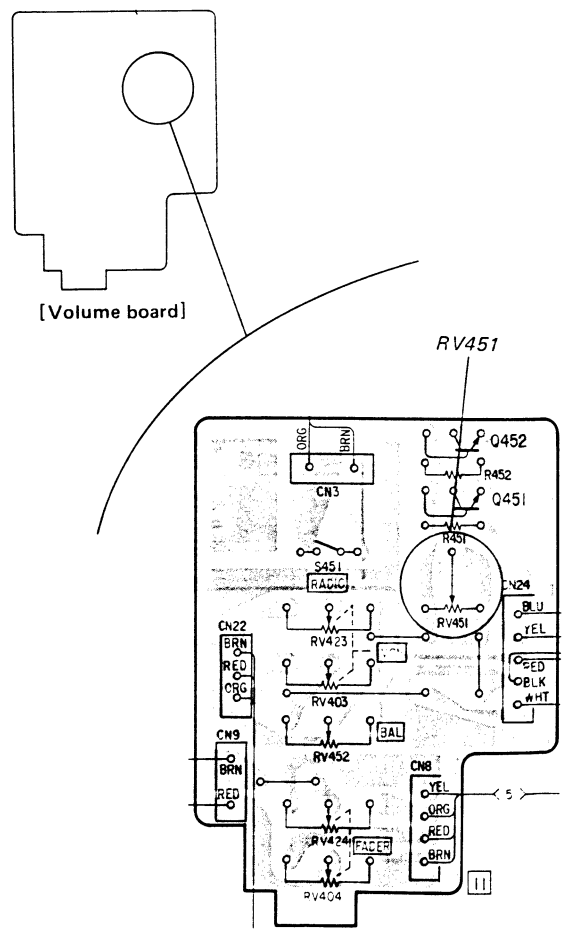
Traffic Information Volume Adjustment



Procedure:

1. Set VOL on SET at MIN and SDK switch at ON. (SEEK operation starts autmatically and stop at specified frequency and modulation signal is output.)
2. Adjust RV451 to obtain −15 dB reading on VTVM.

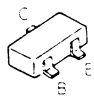
Adjustment Location:



SECTION 2
DIAGRAMS

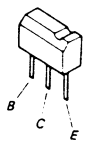
- Semiconductor Lead Layouts

2SA812
2SC1623



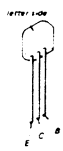
2SA952

2SB822



2SA1048-GR
2SC930-SP
2SC2458

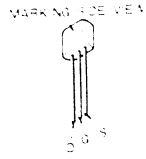
2SC2785
2SD1020F



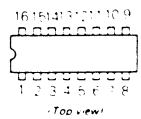
2SD774

2SD1310

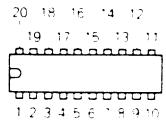
2SK519



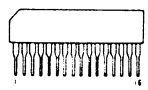
TC9130F



LA1135



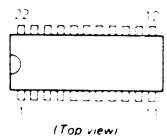
LA1140



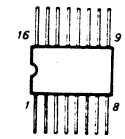
LA2110
LA2220
LA3430

LA2010
TA7325P

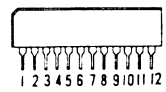
LA2211



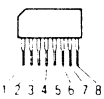
LA3610M



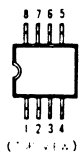
LA4445



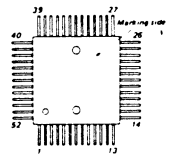
μPC1228HA



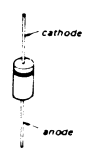
μPC4558C



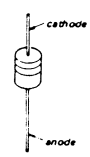
μPD1708AG-020



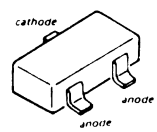
10E2
RD10EB1
RD5.6EB1
RD6.2EB3
RD7.5EB2
RD9.1EB2



1SS119

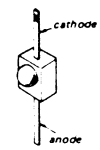


1S2837

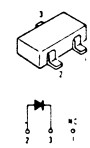


AA3422K

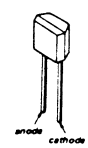
AA2222S
BG2202S



RD9.1M-B1



SVC321SP-A2

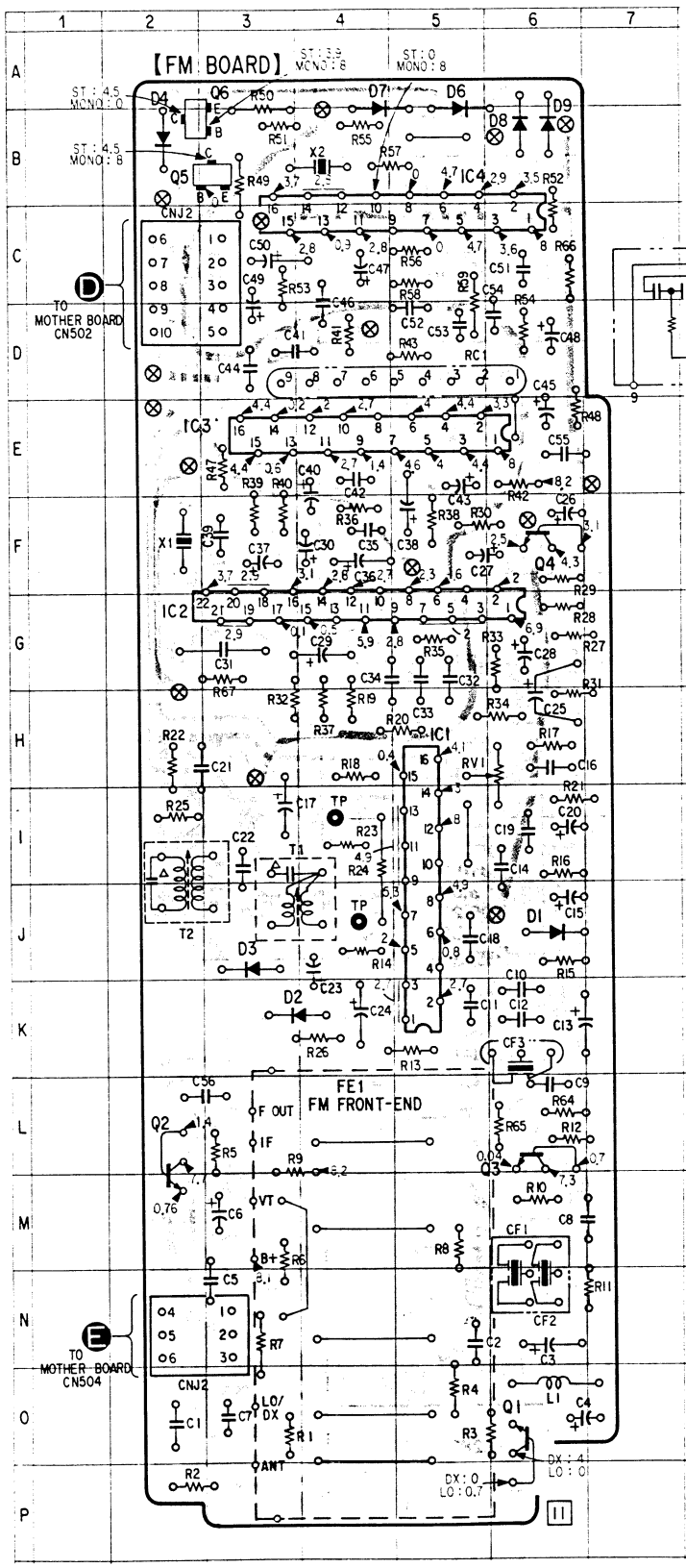


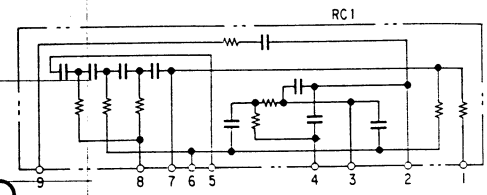
U05G

GL9EG45

2-1. MOUNTING DIAGRAM – FM SECTION –

• See page 16 for Semiconductor Lead Layouts.





Note:

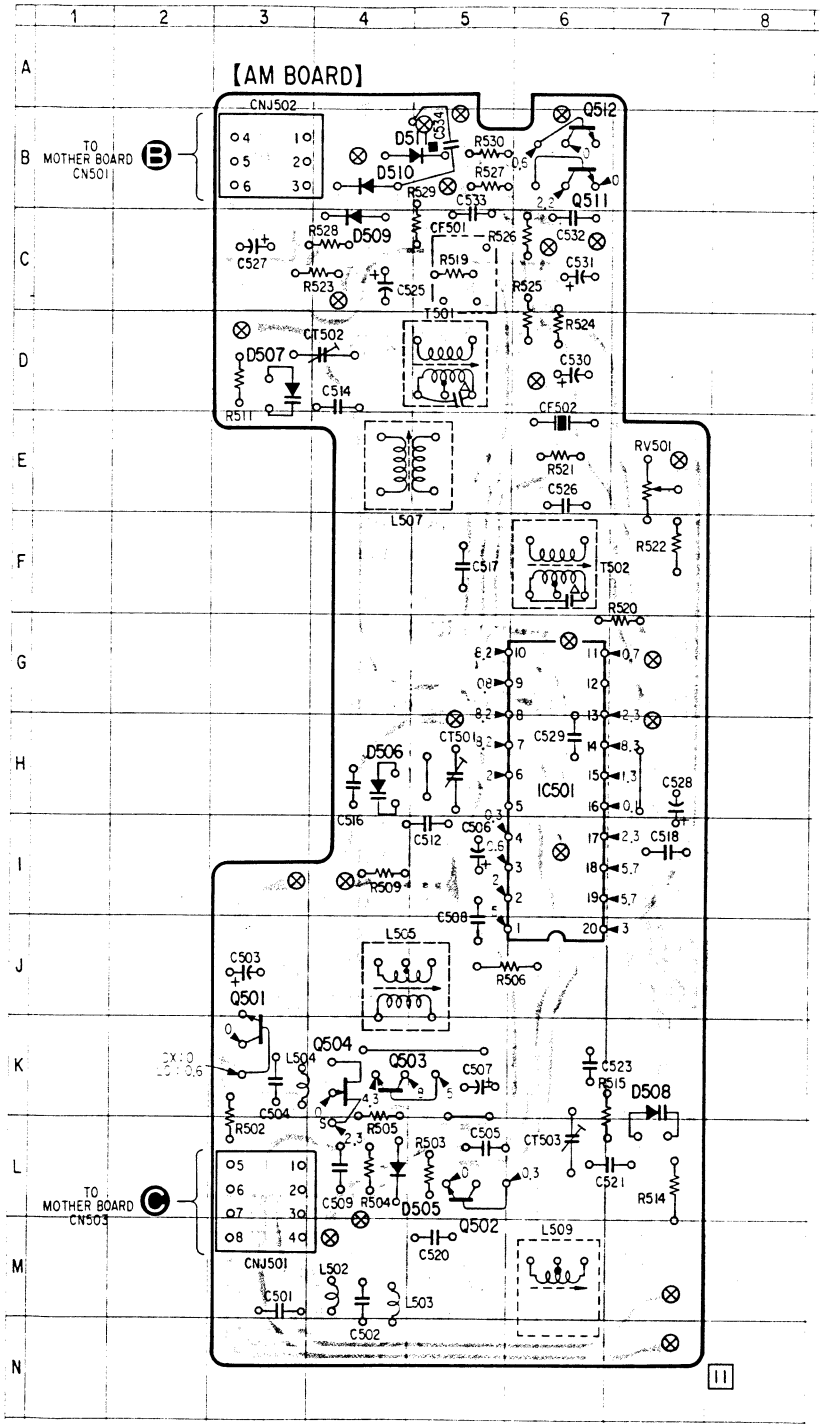
• ▒▒▒ : component-side pattern.

• SEMICONDUCTOR LOCATION

Ref. No.	Location
D1	J-6
D2	K-3
D3	J-3
D4	B-2
D6	A-5
D7	A-4
D8	B-6
D9	B-6
IC1	H-5
IC2	G-2
IC3	E-3
IC4	B-5
Q1	O-6
Q2	L-2
Q3	L-6
Q4	F-6
Q5	B-2
Q6	A-3

2-2. MOUNTING DIAGRAM – AM SECTION –

• See page 16 for Semiconductor Lead Layouts.

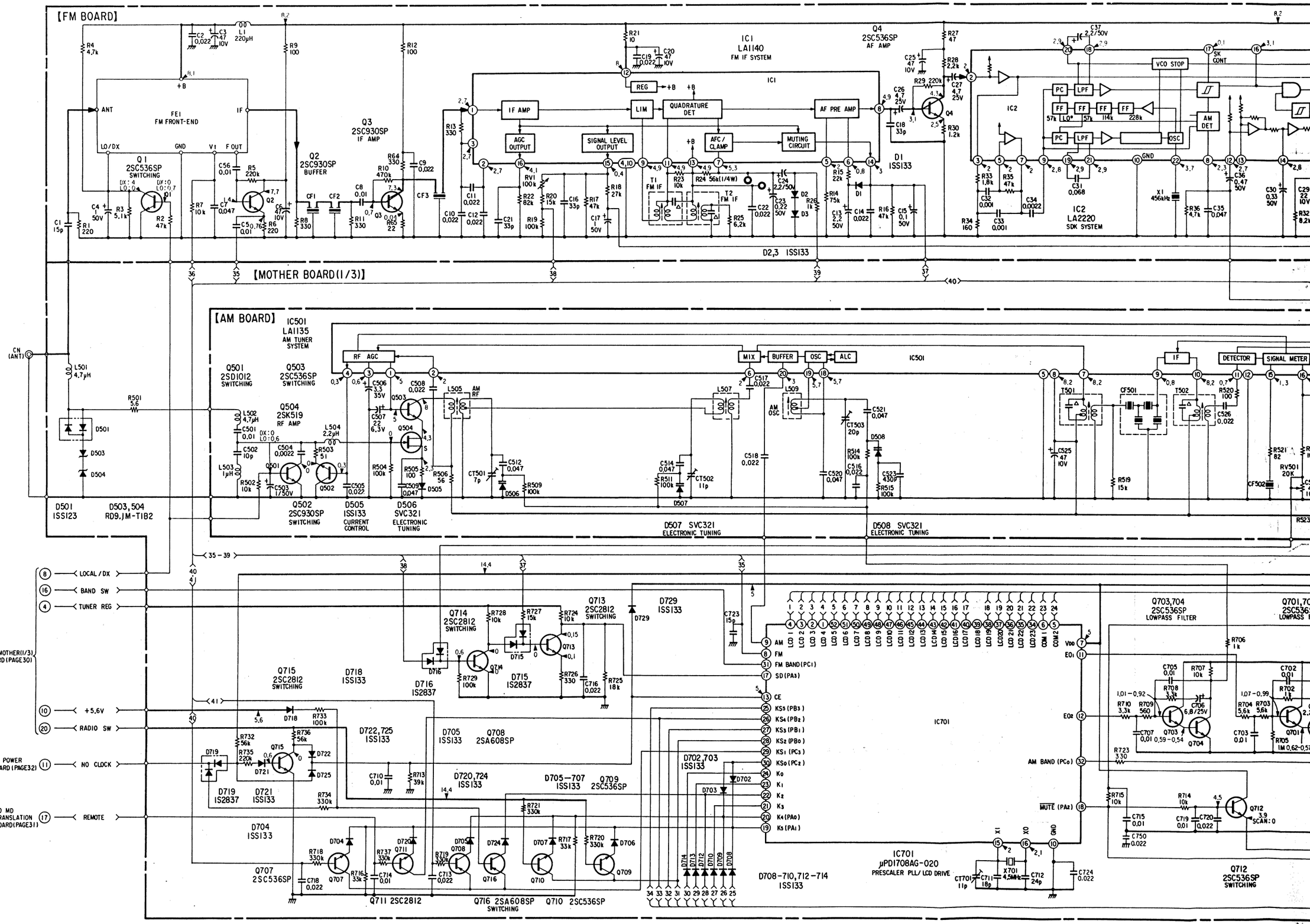


Note:

• ▒▒▒ : component-side pattern.

• SEMICONDUCTOR LOCATION

Ref. No.	Location
D505	L-4
D506	H-4
D507	D-3
D508	L-7
D509	C-4
D510	B-4
D511	B-4
IC501	H-6
Q501	K-3
Q502	L-5
Q503	K-4
Q504	K-4
Q511	B-6
Q512	B-6


【FM BOARD】
FE1 FM FRONT-END
ANT
IF
LO/DX
GND
VT
F OUT
+B
Q1 2SC536SP SWITCHING
Q2 2SC930SP BUFFER
Q3 2SC930SP IF AMP
IC1 LA1140 FM IF SYSTEM
REG
IF AMP
LIM
QUADRATURE DET
AF PRE AMP
AGC OUTPUT
SIGNAL LEVEL OUTPUT
AFC / CLAMP
MUTING CIRCUIT
T1 FM IF
T2 FM IF
Q4 2SC536SP AF AMP
D1 ISS133
IC2 LA2220 SDK SYSTEM
PC
LPF
FF
VCO STOP
SK CONT
AM DET
OSC
X1 456kHz
D2,3 ISS133
【MOTHER BOARD(1/3)】
【AM BOARD】
IC501 LA1135 AM TUNER SYSTEM
RF AGC
MIX
BUFFER
OSC
ALC
IF
DETECTOR
SIGNAL METER
Q501 2SD1012 SWITCHING
Q503 2SC536SP SWITCHING
Q504 2SK519 RF AMP
Q502 2SC930SP SWITCHING
D501 ISS123
D503,504 RD9,JM-T1B2
D505 ISS133 CURRENT CONTROL
D506 SVC321 ELECTRONIC TUNING
D507 SVC321 ELECTRONIC TUNING
D508 SVC321 ELECTRONIC TUNING
CN (ANT)
LOCAL / DX
BAND SW
TUNER REG
TO MOTHER(1/3) BOARD (PAGE30)
+5.6V
RADIO SW
TO POWER BOARD (PAGE32)
NO CLOCK
TO MD TRANSLATION BOARD(PAGE31)
REMOTE
Q715 2SC2812 SWITCHING
D718 ISS133
Q714 2SC2812 SWITCHING
Q713 2SC2812 SWITCHING
D729 ISS133
D716 IS2837
D715 IS2837
D719 IS2837
D721 ISS133
D722,725 ISS133
D705 ISS133
Q708 2SA608SP
D720,724 ISS133
D705–707 ISS133
Q709 2SC536SP
D702,703 ISS133
D704 ISS133
Q707 2SC536SP
Q711 2SC2812
Q716 2SA608SP SWITCHING
Q710 2SC536SP
D708–710,712–714 ISS133
IC701 μPD1708AG-020 PRESCALER PLL/ LCD DRIVE
Q703,704 2SC536SP LOWPASS FILTER
Q712 2SC536SP SWITCHING
AM
FM
FM BAND(PC1)
SD(PA3)
CE
KS3 (PB3)
KS4 (PB2)
KS3 (PB1)
KS2 (PB0)
KS1 (PC3)
KS0 (PC2)
Ko
K1
K2
K3
K4(PA0)
K5(PA1)
AM BAND (PC0)
MUTE (PA2)
Vdd
EO1
EO2
X1
XO
GND

9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24

IC1 LA1140 FM IF SYSTEM

Q4 2SC536SP AF AMP

D1 ISS133

IC2 LA2220 SDK SYSTEM

IC3 LA2110 FM NOISE CANCELLER

IC4 LA3430 FM MULTIPLEX STEREO DEMODULATOR

D2,3 ISS133

D6,7 ISS133

D509,510 ISS133

IC501

Q512 2SC536SP SWITCHING

Q511 2SC536SP SWITCHING

D510

D509

TO MOTHER(1/3) BOARD(PAGE30)

TO POWER BOARD(PAGE32)

D507 SVC321 ELECTRONIC TUNING

D508 SVC321 ELECTRONIC TUNING

D511 ISS133 LEVEL SHIFT

D729 ISS133

D702,703 ISS133

Q703,704 2SC536SP LOWPASS FILTER

Q701,702 2SC536SP LOWPASS FILTER

Q705 2SD1012 REGULATOR

Q706 2SD1012 PROTECTOR

D701 RD10E-B1

IC701 μPD1708AG-020 PRESCALER PLL/LCD DRIVE

D708-710,712-714 ISS133

Q712 2SC536SP SWITCHING

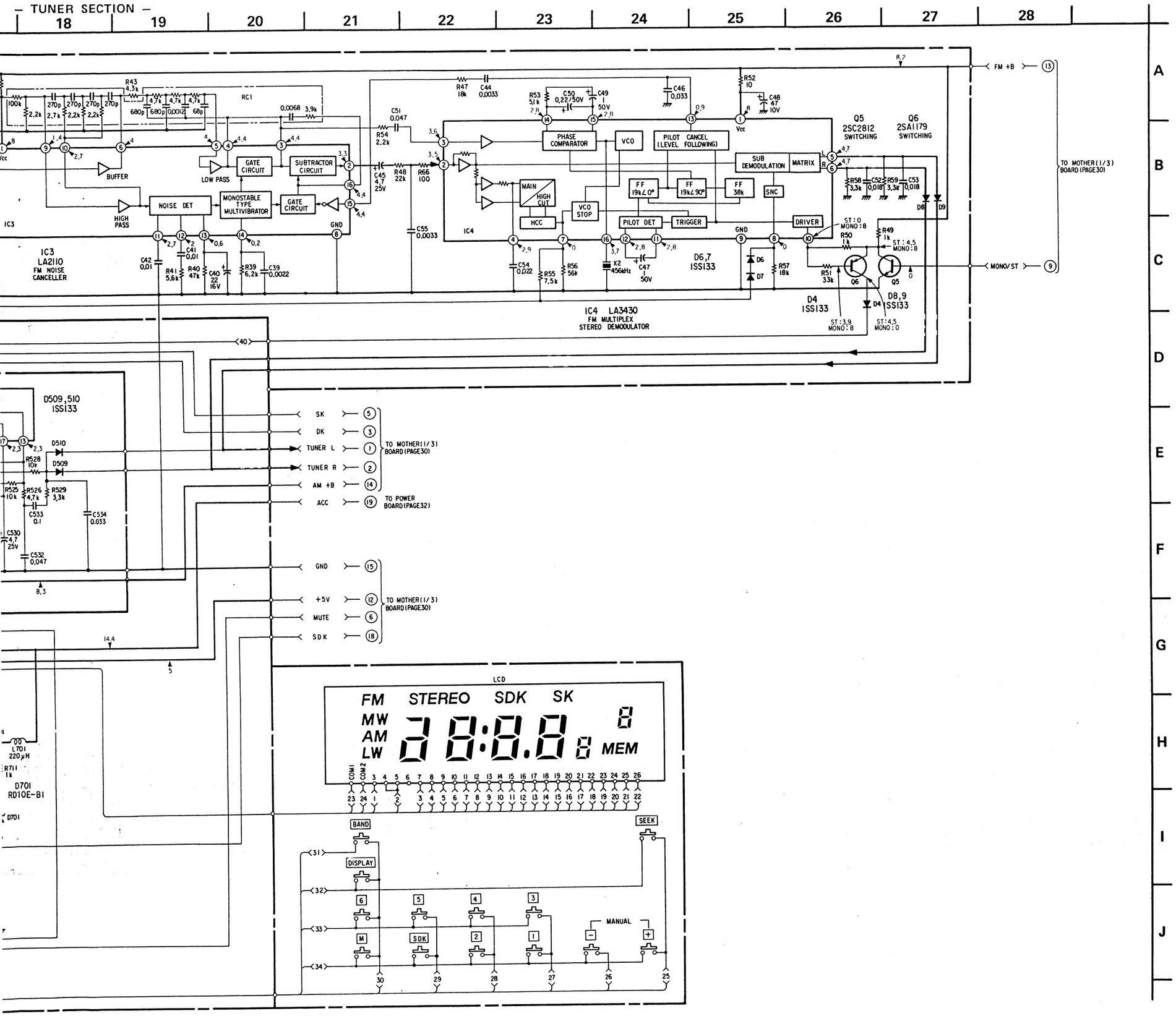
LCD

FM STEREO SDK SK

MW AM LW

MEM

BAND SEEK DISPLAY MANUAL



Note:

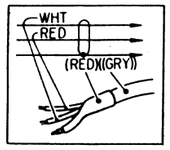
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▬▬ : B+ bus.
- ▭ : adjustment for repair.
- ▬▶▬ : signal path.
- ▬▶ : L-CH signal path.
- ▬▶ : R-CH signal path.
- Power voltage is 14.4 V and fed with from dc power supply.
  Voltage are dc with respect to ground in no signal mode.
  Voltage variations may be noted due to normal production tolerances.

2-4. MOUNTING DIAGRAM — AUDIO, CONTROL, POWER SECTION —

• See page 16 for Semiconductor Lead Layouts.

Note:

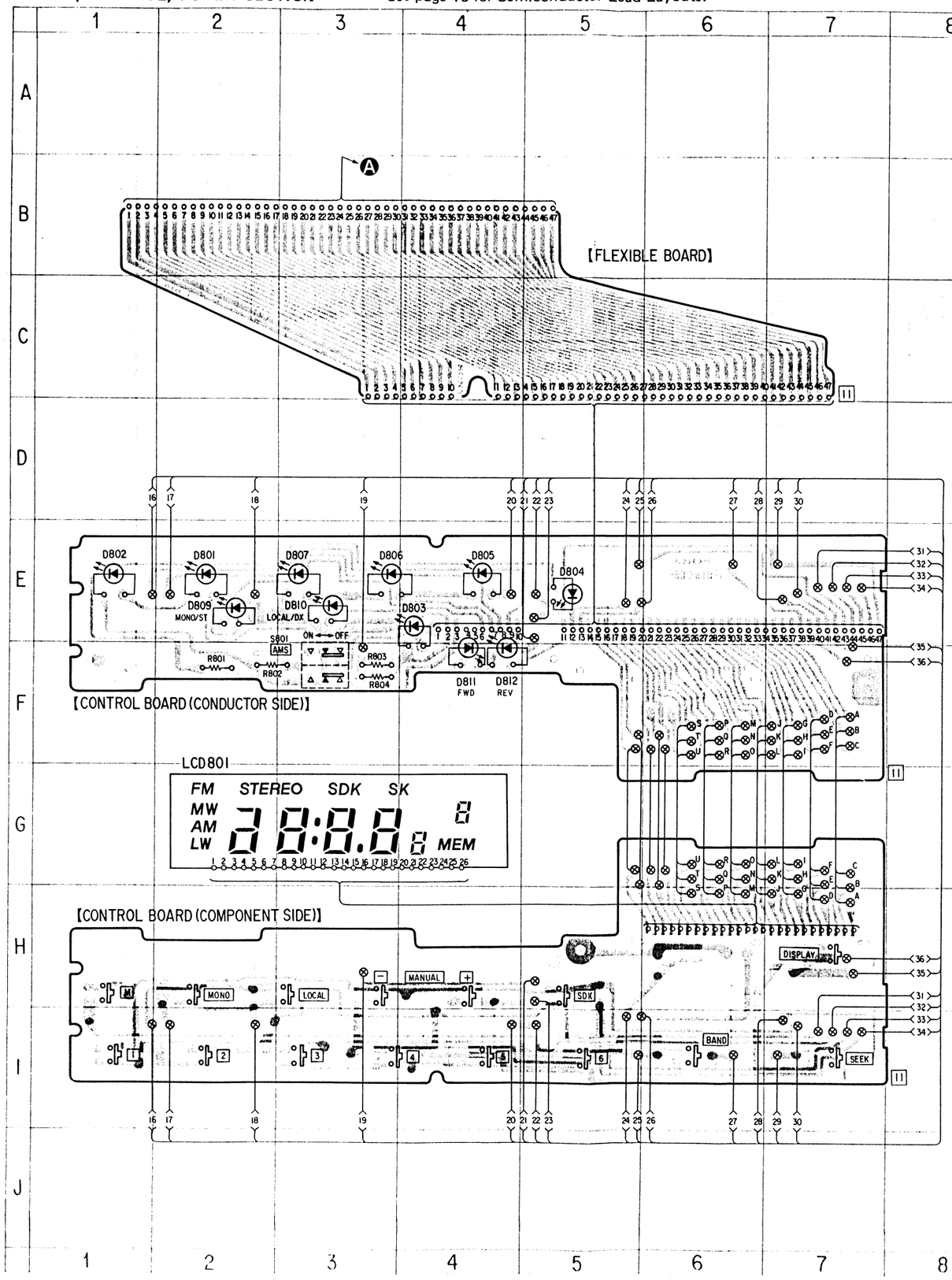
- Color code or sleeving over the end of the jacket.

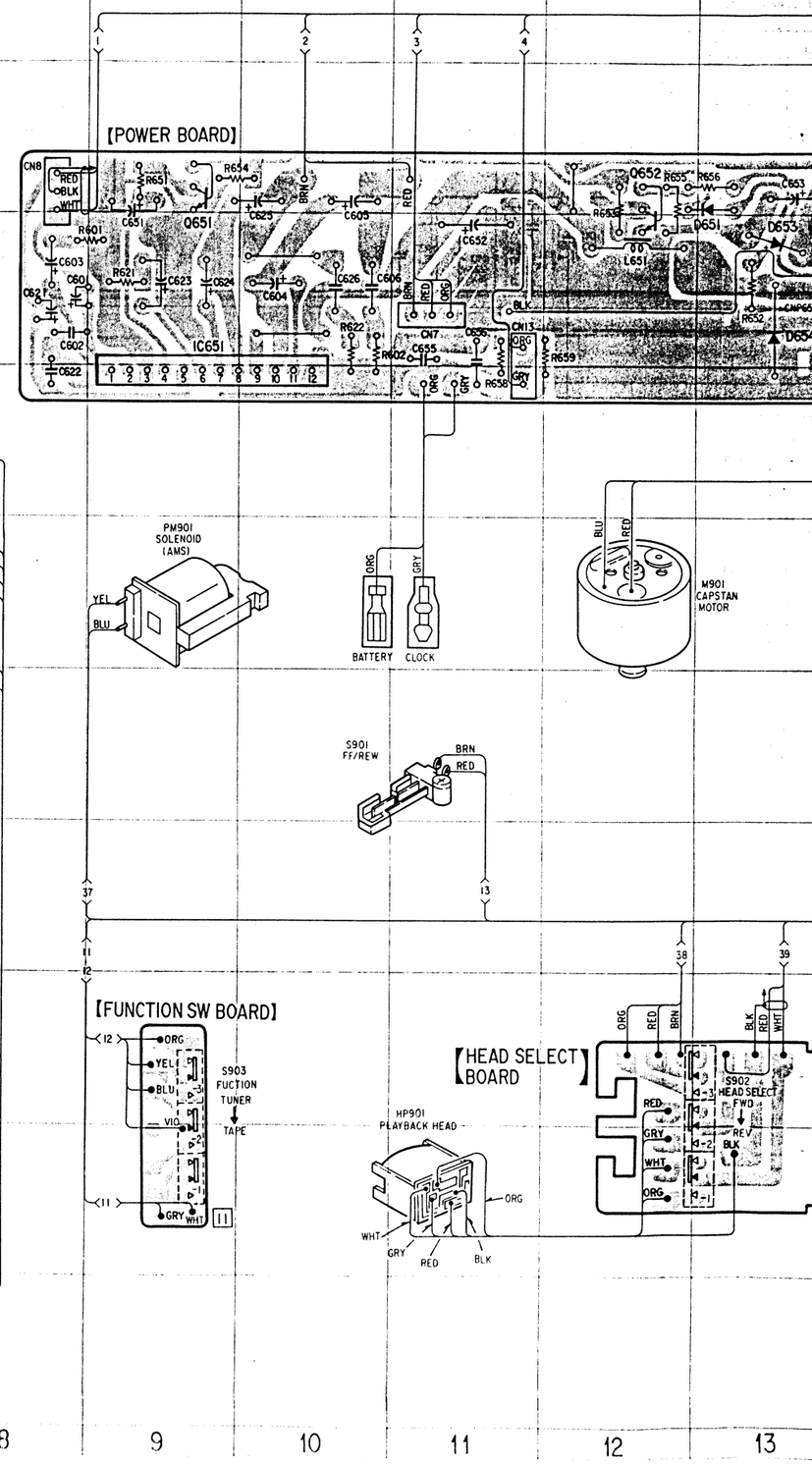


- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ⊗ : Through hole.

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D301	E-22	IC301	E-19
D302	C-17	IC302	D-20
D303	C-19	IC303	E-22
D304	C-24	IC304	E-25
D305	B-24	IC305	B-26
D306	C-24	IC306	G-26
D307	B-23	IC651	D-9
D308	B-24	IC701	H-22
D309	C-25		
D310	C-25	Q101	F-27
D311	C-24	Q102	D-27
D312	B-24	Q103	B-25
D313	B-25	Q201	E-27
D314	D-25	Q202	C-27
D315	D-25	Q203	C-25
D316	C-22	Q301	D-24
D317	E-26	Q302	D-23
D319	B-22	Q303	B-17
D320	B-23	Q304	E-22
D321	B-22	Q305	D-22
D322	C-21	Q306	H-25
D323	C-20	Q307	C-19
D324	F-25	Q308	H-25
D501	F-17	Q309	B-24
D503	F-17	Q310	B-24
D504	F-17	Q311	B-25
D651	C-13	Q312	E-26
D652	B-15	Q313	D-26
D653	C-13	Q314	D-25
D654	C-13	Q315	D-26
D701	G-24	Q316	B-22
D702	H-19	Q317	B-23
D703	H-19	Q318	C-21
D704	H-19	Q319	B-19
D705	H-20	Q320	C-19
D706	I-20	Q321	B-20
D707	I-20	Q322	C-19
D708	I-19	Q323	C-20
D709	I-20	Q324	G-26
D710	I-20	Q325	G-26
D712	I-20	Q327	B-22
D713	I-20	Q451	B-29
D714	I-20	Q452	B-29
D715	D-18	Q651	B-9
D716	F-18	Q652	B-12
D718	F-24	Q701	H-23
D719	F-24	Q702	H-24
D720	G-19	Q703	G-23
D721	F-23	Q704	G-24
D722	G-23	Q705	G-24
D723	E-24	Q706	H-24
D724	G-20	Q707	H-20
D725	G-23	Q708	H-20
D729	F-23	Q709	H-21
D801	E-2	Q710	H-20
D802	E-1	Q711	G-19
D803	E-4	Q712	I-18
D804	E-5	Q713	E-18
D805	E-4	Q714	E-18
D806	E-3	Q715	F-22
D807	E-3	Q716	G-20
D809	E-2	Q851	I-27
D810	E-3	Q852	I-27
D811	F-4		
D812	F-4		
D851	I-27		





4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Ⓐ

【FLEXIBLE BOARD】

【POWER BOARD】

【MOTHER BOARD】

Ⓑ TO AM BOARD CNJ502

Ⓓ TO FM BOARD CNJ2

Ⓔ TO FM BOARD CNJ2

Ⓒ TO AM BOARD CN501

【MD TRANSLATION】 BOARD

【FUNCTION SW BOARD】

【HEAD SELECT】 BOARD

PM901 SOLENOID (AMS)

M901 CAPSTAN MOTOR

S601 SCAN SWITCH

S901 FF/REW

S903 FUCTION TUNER TAPE

S902 HEAD SELECT FWD REV

HP901 PLAYBACK HEAD

BATTERY CLOCK

(R) (L) PRE OUT

ANT

IC651

D651 D652 D653 D654

Q651 Q652

D601 D602 D603 D604 D605 D606 D607 D608 D609 D610 D611 D612 D613 D614 D615 D616 D701 D702 D703 D704 D705 D706 D707 D708 D709 D710 D711 D712 D713 D714 D715 D716 D717 D718 D719 D720 D721 D722 D723 D724 D725 D726 D727 D728 D729 D730 D731 D732 D733 D734 D735 D736 D737 D738 D739 D740 D741 D742 D743 D744 D745 D746 D747 D748 D749 D750 D751 D752 D753 D754 D755 D756 D757 D758 D759 D760 D761 D762 D763 D764 D765 D766 D767 D768 D769 D770 D771 D772 D773 D774 D775 D776 D777 D778 D779 D780 D781 D782 D783 D784 D785 D786 D787 D788 D789 D790 D791 D792 D793 D794 D795 D796 D797 D798 D799 D7100 D7101 D7102 D7103 D7104 D7105 D7106 D7107 D7108 D7109 D7110 D7111 D7112 D7113 D7114 D7115 D7116 D7117 D7118 D7119 D7120 D7121 D7122 D7123 D7124 D7125 D7126 D7127 D7128 D7129 D7130 D7131 D7132 D7133 D7134 D7135 D7136 D7137 D7138 D7139 D7140 D7141 D7142 D7143 D7144 D7145 D7146 D7147 D7148 D7149 D7150 D7151 D7152 D7153 D7154 D7155 D7156 D7157 D7158 D7159 D7160 D7161 D7162 D7163 D7164 D7165 D7166 D7167 D7168 D7169 D7170 D7171 D7172 D7173 D7174 D7175 D7176 D7177 D7178 D7179 D7180 D7181 D7182 D7183 D7184 D7185 D7186 D7187 D7188 D7189 D7190 D7191 D7192 D7193 D7194 D7195 D7196 D7197 D7198 D7199 D7200 D7201 D7202 D7203 D7204 D7205 D7206 D7207 D7208 D7209 D7210 D7211 D7212 D7213 D7214 D7215 D7216 D7217 D7218 D7219 D7220 D7221 D7222 D7223 D7224 D7225 D7226 D7227 D7228 D7229 D7230 D7231 D7232 D7233 D7234 D7235 D7236 D7237 D7238 D7239 D7240 D7241 D7242 D7243 D7244 D7245 D7246 D7247 D7248 D7249 D7250 D7251 D7252 D7253 D7254 D7255 D7256 D7257 D7258 D7259 D7260 D7261 D7262 D7263 D7264 D7265 D7266 D7267 D7268 D7269 D7270 D7271 D7272 D7273 D7274 D7275 D7276 D7277 D7278 D7279 D7280 D7281 D7282 D7283 D7284 D7285 D7286 D7287 D7288 D7289 D7290 D7291 D7292 D7293 D7294 D7295 D7296 D7297 D7298 D7299 D7300 D7301 D7302 D7303 D7304 D7305 D7306 D7307 D7308 D7309 D7310 D7311 D7312 D7313 D7314 D7315 D7316 D7317 D7318 D7319 D7320 D7321 D7322 D7323 D7324 D7325 D7326 D7327 D7328 D7329 D7330 D7331 D7332 D7333 D7334 D7335 D7336 D7337 D7338 D7339 D7340 D7341 D7342 D7343 D7344 D7345 D7346 D7347 D7348 D7349 D7350 D7351 D7352 D7353 D7354 D7355 D7356 D7357 D7358 D7359 D7360 D7361 D7362 D7363 D7364 D7365 D7366 D7367 D7368 D7369 D7370 D7371 D7372 D7373 D7374 D7375 D7376 D7377 D7378 D7379 D7380 D7381 D7382 D7383 D7384 D7385 D7386 D7387 D7388 D7389 D7390 D7391 D7392 D7393 D7394 D7395 D7396 D7397 D7398 D7399 D7400 D7401 D7402 D7403 D7404 D7405 D7406 D7407 D7408 D7409 D7410 D7411 D7412 D7413 D7414 D7415 D7416 D7417 D7418 D7419 D7420 D7421 D7422 D7423 D7424 D7425 D7426 D7427 D7428 D7429 D7430 D7431 D7432 D7433 D7434 D7435 D7436 D7437 D7438 D7439 D7440 D7441 D7442 D7443 D7444 D7445 D7446 D7447 D7448 D7449 D7450 D7451 D7452 D7453 D7454 D7455 D7456 D7457 D7458 D7459 D7460 D7461 D7462 D7463 D7464 D7465 D7466 D7467 D7468 D7469 D7470 D7471 D7472 D7473 D7474 D7475 D7476 D7477 D7478 D7479 D7480 D7481 D7482 D7483 D7484 D7485 D7486 D7487 D7488 D7489 D7490 D7491 D7492 D7493 D7494 D7495 D7496 D7497 D7498 D7499 D7500 D7501 D7502 D7503 D7504 D7505 D7506 D7507 D7508 D7509 D7510 D7511 D7512 D7513 D7514 D7515 D7516 D7517 D7518 D7519 D7520 D7521 D7522 D7523 D7524 D7525 D7526 D7527 D7528 D7529 D7530 D7531 D7532 D7533 D7534 D7535 D7536 D7537 D7538 D7539 D7540 D7541 D7542 D7543 D7544 D7545 D7546 D7547 D7548 D7549 D7550 D7551 D7552 D7553 D7554 D7555 D7556 D7557 D7558 D7559 D7560 D7561 D7562 D7563 D7564 D7565 D7566 D7567 D7568 D7569 D7570 D7571 D7572 D7573 D7574 D7575 D7576 D7577 D7578 D7579 D7580 D7581 D7582 D7583 D7584 D7585 D7586 D7587 D7588 D7589 D7590 D7591 D7592 D7593 D7594 D7595 D7596 D7597 D7598 D7599 D7600 D7601 D7602 D7603 D7604 D7605 D7606 D7607 D7608 D7609 D7610 D7611 D7612 D7613 D7614 D7615 D7616 D7617 D7618 D7619 D7620 D7621 D7622 D7623 D7624 D7625 D7626 D7627 D7628 D7629 D7630 D7631 D7632 D7633 D7634 D7635 D7636 D7637 D7638 D7639 D7640 D7641 D7642 D7643 D7644 D7645 D7646 D7647 D7648 D7649 D7650 D7651 D7652 D7653 D7654 D7655 D7656 D7657 D7658 D7659 D7660 D7661 D7662 D7663 D7664 D7665 D7666 D7667 D7668 D7669 D7670 D7671 D7672 D7673 D7674 D7675 D7676 D7677 D7678 D7679 D7680 D7681 D7682 D7683 D7684 D7685 D7686 D7687 D7688 D7689 D7690 D7691 D7692 D7693 D7694 D7695 D7696 D7697 D7698 D7699 D7700 D7701 D7702 D7703 D7704 D7705 D7706 D7707 D7708 D7709 D7710 D7711 D7712 D7713 D7714 D7715 D7716 D7717 D7718 D7719 D7720 D7721 D7722 D7723 D7724 D7725 D7726 D7727 D7728 D7729 D7730 D7731 D7732 D7733 D7734 D7735 D7736 D7737 D7738 D7739 D7740 D7741 D7742 D7743 D7744 D7745 D7746 D7747 D7748 D7749 D7750 D7751 D7752 D7753 D7754 D7755 D7756 D7757 D7758 D7759 D7760 D7761 D7762 D7763 D7764 D7765 D7766 D7767 D7768 D7769 D7770 D7771 D7772 D7773 D7774 D7775 D7776 D7777 D7778 D7779 D7780 D7781 D7782 D7783 D7784 D7785 D7786 D7787 D7788 D7789 D7790 D7791 D7792 D7793 D7794 D7795 D7796 D7797 D7798 D7799 D7800 D7801 D7802 D7803 D7804 D7805 D7806 D7807 D7808 D7809 D7810 D7811 D7812 D7813 D7814 D7815 D7816 D7817 D7818 D7819 D7820 D7821 D7822 D7823 D7824 D7825 D7826 D7827 D7828 D7829 D7830 D7831 D7832 D7833 D7834 D7835 D7836 D7837 D7838 D7839 D7840 D7841 D7842 D7843 D7844 D7845 D7846 D7847 D7848 D7849 D7850 D7851 D7852 D7853 D7854 D7855 D7856 D7857 D7858 D7859 D7860 D7861 D7862 D7863 D7864 D7865 D7866 D7867 D7868 D7869 D7870 D7871 D7872 D7873 D7874 D7875 D7876 D7877 D7878 D7879 D7880 D7881 D7882 D7883 D7884 D7885 D7886 D7887 D7888 D7889 D7890 D7891 D7892 D7893 D7894 D7895 D7896 D7897 D7898 D7899 D7900 D7901 D7902 D7903 D7904 D7905 D7906 D7907 D7908 D7909 D7910 D7911 D7912 D7913 D7914 D7915 D7916 D7917 D7918 D7919 D7920 D7921 D7922 D7923 D7924 D7925 D7926 D7927 D7928 D7929 D7930 D7931 D7932 D7933 D7934 D7935 D7936 D7937 D7938 D7939 D7940 D7941 D7942 D7943 D7944 D7945 D7946 D7947 D7948 D7949 D7950 D7951 D7952 D7953 D7954 D7955 D7956 D7957 D7958 D7959 D7960 D7961 D7962 D7963 D7964 D7965 D7966 D7967 D7968 D7969 D7970 D7971 D7972 D7973 D7974 D7975 D7976 D7977 D7978 D7979 D7980 D7981 D7982 D7983 D7984 D7985 D7986 D7987 D7988 D7989 D7990 D7991 D7992 D7993 D7994 D7995 D7996 D7997 D7998 D7999 D8000 D8001 D8002 D8003 D8004 D8005 D8006 D8007 D8008 D8009 D8010 D8011 D8012 D8013 D8014 D8015 D8016 D8017 D8018 D8019 D8020 D8021 D8022 D8023 D8024 D8025 D8026 D8027 D8028 D8029 D8030 D8031 D8032 D8033 D8034 D8035 D8036 D8037 D8038 D8039 D8040 D8041 D8042 D8043 D8044 D8045 D8046 D8047 D8048 D8049 D8050 D8051 D8052 D8053 D8054 D8055 D8056 D8057 D8058 D8059 D8060 D8061 D8062 D8063 D8064 D8065 D8066 D8067 D8068 D8069 D8070 D8071 D8072 D8073 D8074 D8075 D8076 D8077 D8078 D8079 D8080 D8081 D8082 D8083 D8084 D8085 D8086 D8087 D8088 D8089 D8090 D8091 D8092 D8093 D8094 D8095 D8096 D8097 D8098 D8099 D8100 D8101 D8102 D8103 D8104 D8105 D8106 D8107 D8108 D8109 D8110 D8111 D8112 D8113 D8114 D8115 D8116 D8117 D8118 D8119 D8120 D8121 D8122 D8123 D8124 D8125 D8126 D8127 D8128 D8129 D8130 D8131 D8132 D8133 D8134 D8135 D8136 D8137 D8138 D8139 D8140 D8141 D8142 D8143 D8144 D8145 D8146 D8147 D8148 D8149 D8150 D8151 D8152 D8153 D8154 D8155 D8156 D8157 D8158 D8159 D8160 D8161 D8162 D8163 D8164 D8165 D8166 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D8333 D8334 D8335 D8336 D8337 D8338 D8339 D8340 D8341 D8342 D8343 D8344 D8345 D8346 D8347 D8348 D8349 D8350 D8351 D8352 D8353 D8354 D8355 D8356 D8357 D8358 D8359 D8360 D8361 D8362 D8363 D8364 D8365 D8366 D8367 D8368 D8369 D8370 D8371 D8372 D8373 D8374 D8375 D8376 D8377 D8378 D8379 D8380 D8381 D8382 D8383 D8384 D8385 D8386 D8387 D8388 D8389 D8390 D8391 D8392 D8393 D8394 D8395 D8396 D8397 D8398 D8399 D8400 D8401 D8402 D8403 D8404 D8405 D8406 D8407 D8408 D8409 D8410 D8411 D8412 D8413 D8414 D8415 D8416 D8417 D8418 D8419 D8420 D8421 D8422 D8423 D8424 D8425 D8426 D8427 D8428 D8429 D8430 D8431 D8432 D8433 D8434 D8435 D8436 D8437 D8438 D8439 D8440 D8441 D8442 D8443 D8444 D8445 D8446 D8447 D8448 D8449 D8450 D8451 D8452 D8453 D8454 D8455 D8456 D8457 D8458 D8459 D8460 D8461 D8462 D8463 D8464 D8465 D8466 D8467 D8468 D8469 D8470 D8471 D8472 D8473 D8474 D8475 D8476 D8477 D8478 D8479 D8480 D8481 D8482 D8483 D8484 D8485 D8486 D8487 D8488 D8489 D8490 D8491 D8492 D8493 D8494 D8495 D8496 D8497 D8498 D8499 D8500 D8501 D8502 D8503 D8504 D8505 D8506 D8507 D8508 D8509 D8510 D8511 D8512 D8513 D8514 D8515 D8516 D8517 D8518 D8519 D8520 D8521 D8522 D8523 D8524 D8525 D8526 D8527 D8528 D8529 D8530 D8531 D8532 D8533 D8534 D8535 D8536 D8537 D8538 D8539 D8540 D8541 D8542 D8543 D8544 D8545 D8546 D8547 D8548 D8549 D8550 D8551 D8552 D8553 D8554 D8555 D8556 D8557 D8558 D8559 D8560 D8561 D8562 D8563 D8564 D8565 D8566 D8567 D8568 D8569 D8570 D8571 D8572 D8573 D8574 D8575 D8576 D8577 D8578 D8579 D8580 D8581 D8582 D8583 D8584 D8585 D8586 D8587 D8588 D8589 D8590 D8591 D8592 D8593 D8594 D8595 D8596 D8597 D8598 D8599 D8600 D8601 D8602 D8603 D8604 D8605 D8606 D8607 D8608 D8609 D8610 D8611 D8612 D8613 D8614 D8615 D8616 D8617 D8618 D8619 D8620 D8621 D8622 D8623 D8624 D8625 D8626 D8627 D8628 D8629 D8630 D8631 D8632 D8633 D8634 D8635 D8636 D8637 D8638 D8639 D8640 D8641 D8642 D8643 D8644 D8645 D8646 D8647 D8648 D8649 D8650 D8651 D8652 D8653 D8654 D8655 D8656 D8657 D8658 D8659 D8660 D8661 D8662 D8663 D8664 D8665 D8666 D8667 D8668 D8669 D8670 D8671 D8672 D8673 D8674 D8675 D8676 D8677 D8678 D8679 D8680 D8681 D8682 D8683 D8684 D8685 D8686 D8687 D8688 D8689 D8690 D8691 D8692 D8693 D8694 D8695 D8696 D8697 D8698 D8699 D8700 D8701 D8702 D8703 D8704 D8705 D8706 D8707 D8708 D8709 D8710 D8711 D8712 D8713 D8714 D8715 D8716 D8717 D8718 D8719 D8720 D8721 D8722 D8723 D8724 D8725 D8726 D8727 D8728 D8729 D8730 D8731 D8732 D8733 D8734 D8735 D8736 D8737 D8738 D8739 D8740 D8741 D8742 D8743 D8744 D8745 D8746 D8747 D8748 D8749 D8750 D8751 D8752 D8753 D8754 D8755 D8756 D8757 D8758 D8759 D8760 D8761 D8762 D8763 D8764 D8765 D8766 D8767 D8768 D8769 D8770 D8771 D8772 D8773 D8774 D8775 D8776 D8777 D8778 D8779 D8780 D8781 D8782 D8783 D8784 D8785 D8786 D8787 D8788 D8789 D8790 D8791 D8792 D8793 D8794 D8795 D8796 D8797 D8798 D8799 D8800 D8801 D8802 D8803 D8804 D8805 D8806 D8807 D8808 D8809 D8810 D8811 D8812 D8813 D8814 D8815 D8816 D8817 D8818 D8819 D8820 D8821 D8822 D8823 D8824 D8825 D8826 D8827 D8828 D8829 D8830 D8831 D8832 D8833 D8834 D8835 D8836 D8837 D8838 D8839 D8840 D8841 D8842 D8843 D8844 D8845 D8846 D8847 D8848 D8849 D8850 D8851 D8852 D8853 D8854 D8855 D8856 D8857 D8858 D8859 D8860 D8861 D8862 D8863 D8864 D8865 D8866 D8867 D8868 D8869 D8870 D8871 D8872 D8873 D8874 D8875 D8876 D8877 D8878 D8879 D8880 D8881 D8882 D8883 D8884 D8885 D8886 D8887 D8888 D8889 D8890 D8891 D8892 D8893 D8894 D8895 D8896 D8897 D8898 D8899 D8900 D8901 D8902 D8903 D8904 D8905 D8906 D8907 D8908 D8909 D8910 D8911 D8912 D8913 D8914 D8915 D8916 D8917 D8918 D8919 D8920 D8921 D8922 D8923 D8924 D8925 D8926 D8927 D8928 D8929 D8930 D8931 D8932 D8933 D8934 D8935 D8936 D8937 D8938 D8939 D8940 D8941 D8942 D8943 D8944 D8945 D8946 D8947 D8948 D8949 D8950 D8951 D8952 D8953 D8954 D8955 D8956 D8957 D8958 D8959 D8960 D8961 D8962 D8963 D8964 D8965 D8966 D8967 D8968 D8969 D8970 D8971 D8972 D8973 D8974 D8975 D8976 D8977 D8978 D8979 D8980 D8981 D8982 D8983 D8984 D8985 D8986 D8987 D8988 D8989 D8990 D8991 D8992 D8993 D8994 D8995 D8996 D8997 D8998 D8999 D9000 D9001 D9002 D9003 D9004 D9005 D9006 D9007 D9008 D9009 D9010 D9011 D9012 D9013 D9014 D9015 D9016 D9017 D9018 D9019 D9020 D9021 D9022 D9023 D9024 D9025 D9026 D9027 D9028 D9029 D9030 D9031 D9032 D9033 D9034 D9035 D9036 D9037 D9038 D9039 D9040 D9041 D9042 D9043 D9044 D9045 D9046 D9047 D9048 D9049 D9050 D9051 D9052 D9053 D9054 D9055 D9056 D9057 D9058 D9059 D9060 D9061 D9062 D9063 D9064 D9065 D9066 D9067 D9068 D9069 D9070 D9071 D9072 D9073 D9074 D9075 D9076 D9077 D9078 D9079 D9080 D9081 D9082 D9083 D9084 D9085 D9086 D9087 D9088 D9089 D9090 D9091 D9092 D9093 D9094 D9095 D9096 D9097 D9098 D9099 D9100 D9101 D9102 D9103 D9104 D9105 D9106 D9107 D9108 D9109 D9110 D9111 D9112 D9113 D9114 D9115 D9116 D9117 D9118 D9119 D9120 D9121 D9122 D9123 D9124 D9125 D9126 D9127 D9128 D9129 D9130 D9131 D9132 D9133 D9134 D9135 D9136 D9137 D9138 D9139 D9140 D9141 D9142 D9143 D9144 D9145 D9146 D9147 D9148 D9149 D9150 D9151 D9152 D9153 D9154 D9155 D9156 D9157 D9158 D9159 D9160 D9161 D9162 D9163 D9164 D9165 D9166 D9167 D9168 D9169 D9170 D9171 D9172 D9173 D9174 D9175 D9176 D9177 D9178 D9179 D9180 D9181 D9182 D9183 D9184 D9185 D9186 D9187 D9188 D9189 D9190 D9191 D9192 D9193 D9194 D9195 D9196 D9197 D9198 D9199 D9200 D9201 D9202 D9203 D9204 D9205 D9206 D9207 D9208 D9209 D9210 D9211 D9212 D9213 D9214 D9215 D9216 D9217 D9218 D9219 D9220 D9221 D9222 D9223 D9224 D9225 D9226 D9227 D9228 D9229 D9230 D9231 D9232 D9233 D9234 D9235 D9236 D9237 D9238 D9239 D9240 D9241 D9242 D9243 D9244 D9245 D9246 D9247 D9248 D9249 D9250 D9251 D9252 D9253 D9254 D9255 D9256 D9257 D9258 D9259 D9260 D9261 D9262 D9263 D9264 D9265 D9266 D9267 D9268 D9269 D9270 D9271 D9272 D9273 D9274 D9275 D9276 D9277 D9278 D9279 D9280 D9281 D9282 D9283 D9284 D9285 D9286 D9287 D9288 D9289 D9290 D9291 D9292 D9293 D9294 D9295 D9296 D9297 D9298 D9299 D9300 D9301 D9302 D9303 D9304 D9305 D9306 D9307 D9308 D9309 D9310 D9311 D9312 D9313 D9314 D9315 D9316 D9317 D9318 D9319 D9320 D9321 D9322 D9323 D9324 D9325 D9326 D9327 D9328 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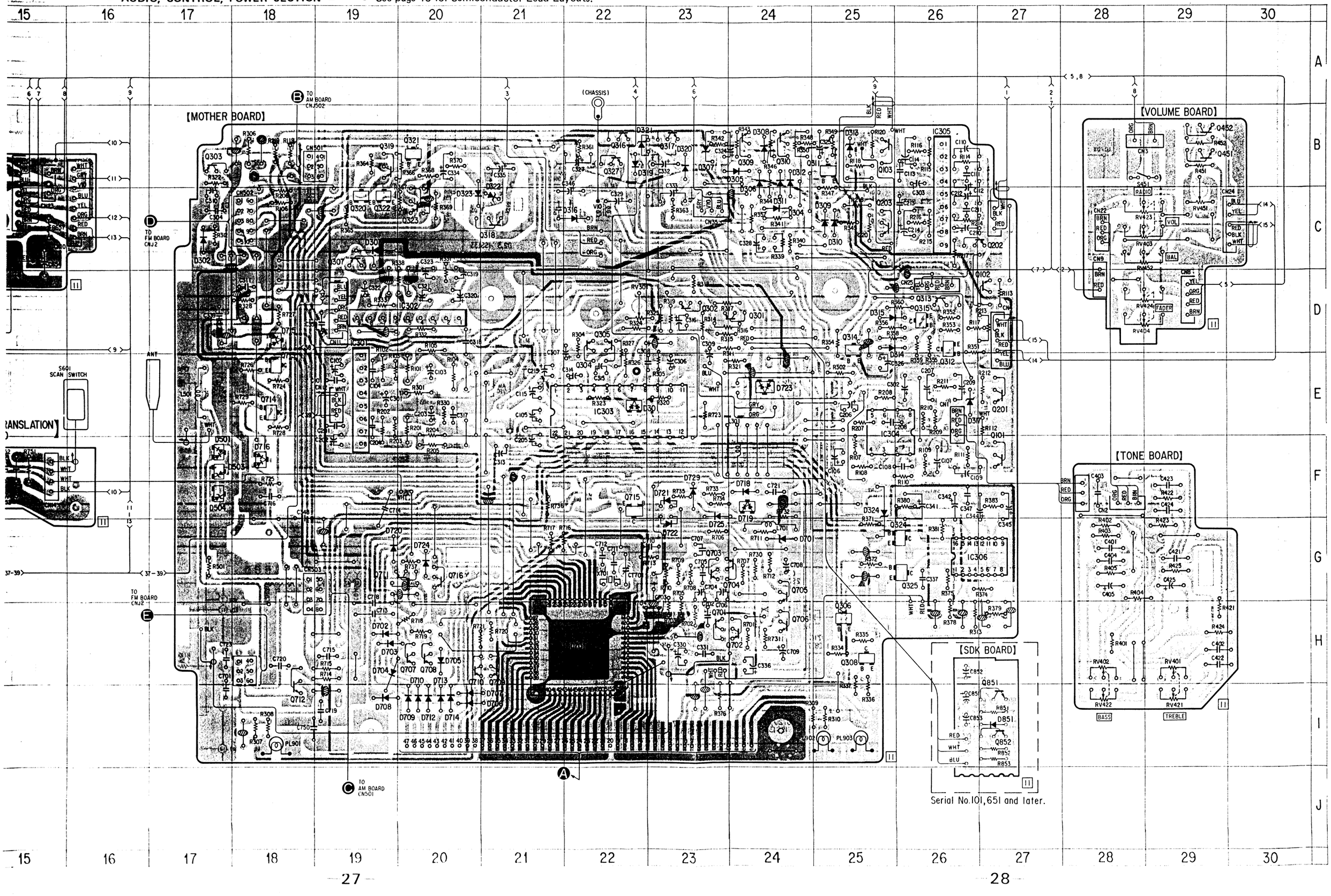
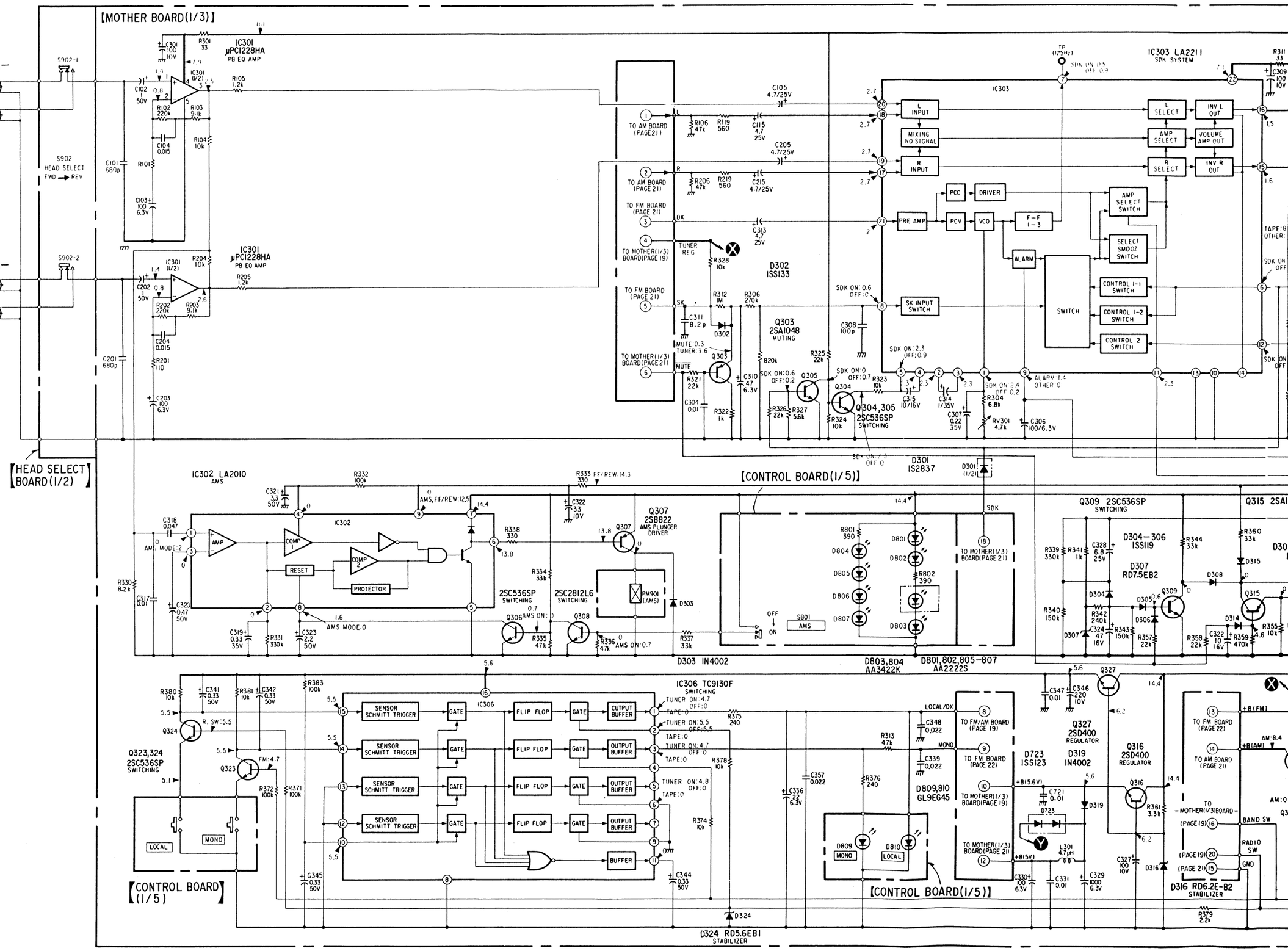
D9495 D9496 D9497 D9498 D9499 D9500 D9501 D9502 D9503 D9504 D9505 D9506 D9507 D9508 D9509 D9510 D9511 D9512 D9513 D9514 D9515 D9516 D9517 D9518 D9519 D9520 D9521 D9522 D9523 D9524 D9525 D9526 D9527 D9528 D9529 D9530 D9531 D9532 D9533 D9534 D9535 D9536 D9537 D9538 D9539 D9540 D9541 D9542 D9543 D9544 D9545 D9546 D9547 D9548 D9549 D9550 D9551 D9552 D9553 D9554 D9555 D9556 D9557 D9558 D9559 D9560 D9561 D9562 D9563 D9564 D9565 D9566 D9567 D9568 D9569 D9570 D9571 D9572 D9573 D9574 D9575 D9576 D9577 D9578 D9579 D9580 D9581 D9582 D9583 D9584 D9585 D9586 D9587 D9588 D9589 D9590 D9591 D9592 D9593 D9594 D9595 D9596 D9597 D9598 D9599 D9600 D9601 D9602 D9603 D9604 D9605 D9606 D9607 D9608 D9609 D9610 D9611 D9612 D9613 D9614 D9615 D9616 D9617 D9618 D9619 D9620 D9621 D9622 D9623 D9624 D9625 D9626 D9627 D9628 D9629 D9630 D9631 D9632 D9633 D9634 D9635 D9636 D9637 D9638 D9639 D9640 D9641 D9642 D9643 D9644 D9645 D9646 D9647 D9648 D9649 D9650 D9651 D9652 D9653 D9654 D9655 D9656 D9657 D9658 D9659 D9660 D9661 D9662 D9663 D9664 D9665 D9666 D9667 D9668 D9669 D9670 D9671 D9672 D9673 D9674 D9675 D9676 D9677 D9678 D9679 D9680 D9681 D9682 D9683 D9684 D9685 D9686 D9687 D9688 D9689 D9690 D9691 D9692 D9693 D9694 D9695 D9696 D9697 D9698 D9699 D9700 D9701 D9702 D9703 D9704 D9705 D9706 D9707 D9708 D9709 D9710 D9711 D9712 D9713 D9714 D9715 D9716 D9717 D9718 D9719 D9720 D9721 D9722 D9723 D9724 D9725 D9726 D9727 D9728 D9729 D9730 D9731 D9732 D9733 D9734 D9735 D9736 D9737 D9738 D9739 D9740 D9741 D9742 D9743 D9744 D9745 D9746 D9747 D9748 D9749 D9750 D9751 D9752 D9753 D9754 D9755 D9756 D9757 D9758 D9759 D9760 D9761 D9762 D9763 D9764 D9765 D9766 D9767 D9768 D9769 D9770 D9771 D9772 D9773 D9774 D9775 D9776 D9777 D9778 D9779 D9780 D9781 D9782 D9783 D9784 D9785 D9786 D9787 D9788 D9789 D9790 D9791 D9792 D9793 D9794 D9795 D9796 D9797 D9798 D9799 D9800 D9801 D9802 D9803 D9804 D9805 D9806 D9807 D9808 D9809 D9810 D9811 D9812 D9813 D9814 D9815 D9816 D9817 D9818 D9819 D9820 D9821 D9822 D9823 D9824 D9825 D9826 D9827 D9828 D9829 D9830 D9831 D9832 D9833 D9834 D9835 D9836 D9837 D9838 D9839 D9840 D9841 D9842 D9843 D9844 D9845 D9846 D9847 D9848 D9849 D9850 D9851 D9852 D9853 D9854 D9855 D9856 D9857 D9858 D9859 D9860 D9861 D9862 D9863 D9864 D9865 D9866 D9867 D9868 D9869 D9870 D9871 D9872 D9873 D9874 D9875 D9876 D9877 D9878 D9879 D9880 D9881 D9882 D9883 D9884 D9885 D9886 D9887 D9888 D9889 D9890 D9891 D9892 D9893 D9894 D9895 D9896 D9897 D9898 D9899 D9900 D9901 D9902 D9903 D9904 D9905 D9906 D9907 D9908 D9909 D9910 D9911 D9912 D9913 D9914 D9915 D9916 D9917 D9918 D9919 D9920 D9921 D9922 D9923 D9924 D9925 D9926 D9927 D9928 D9929 D9930 D9931 D9932 D9933 D9934 D9935 D9936 D9937 D9938 D9939 D9940 D9941 D9942 D9943 D9944 D9945 D9946 D9947 D9948 D9949 D9950 D9951 D9952 D9953 D9954 D9955 D9956 D9957 D9958 D9959 D9960 D9961 D9962 D9963 D9964 D9965 D9966 D9967 D9968 D9969 D9970 D9971 D9972 D9973 D9974 D9975 D9976 D9977 D9978 D9979 D9980 D9981 D9982 D9983 D9984 D9985 D9986 D9987 D9988 D9989 D9990 D9991 D9992 D9993 D9994 D9995 D9996 D9997 D9998 D9999 D10000

DISPLAY MANUAL SDK BAND SEEK

• See page 16 for Semiconductor Lead Layouts.




【MOTHER BOARD(1/3)】
—L-CH—
—R-CH—
FWD
REV
S902-1
S902-2
S902
HEAD SELECT
FWD → REV
HP901
PLAYBACK
HEAD
IC301
μPC1228HA
PB EQ AMP
IC301 (1/2)
IC301 (2/2)
C301 100 10V
C102 1 50V
C202 1 50V
R102 220k
R202 220k
R103 9.1k
R203 9.1k
R104 10k
R204 10k
R105 1.2k
R205 1.2k
C104 0.015
C204 0.015
C101 680p
C201 680p
R101
R201 110
C103 100 6.3V
C203 100 6.3V
R301 33
【HEAD SELECT BOARD(1/2)】
IC303 LA2211
SDK SYSTEM
IC303
TP (12.5Hz)
SDK ON:0.5 OFF:0.9
C309 100 10V
R311 33
L INPUT
R INPUT
MIXING NO SIGNAL
L SELECT
R SELECT
AMP SELECT
INV L OUT
INV R OUT
VOLUME AMP OUT
PCC
DRIVER
PRE AMP
PCV
VCO
F-F 1-3
ALARM
AMP SELECT SWITCH
SELECT SMOOZ SWITCH
CONTROL 1-1 SWITCH
CONTROL 1-2 SWITCH
CONTROL 2 SWITCH
SK INPUT SWITCH
SWITCH
TAPE:0 OTHER:
SDK ON OFF
TO AM BOARD (PAGE21)
TO FM BOARD (PAGE 21)
TO MOTHER(1/3) BOARD(PAGE 19)
TO MOTHER(1/3) BOARD(PAGE21)
C105 4.7/25V
C205 4.7/25V
C215 4.7/25V
C313 4.7 25V
C115 4.7 25V
R106 47k
R206 47k
R119 560
R219 560
TUNER REG
R328 10k
D302 1SS133
R312 1M
R306 270k
C311 8.2p
D302
MUTE:0.3 TUNER:3.6
Q303 2SA1048 MUTING
R321 22k
C304 0.01
R322 1k
C310 47 6.3V
820k
R325 22k
SDK ON:0.6 OFF:0.2
Q305
SDK ON:0 OFF:0.7
Q304
R323 10k
C315 10/16V
Q304,305 2SC536SP SWITCHING
R324 10k
R326 22k
R327 5.6k
C308 100p
SDK ON:0.6 OFF:0
SDK ON:2.3 OFF:0.9
SDK ON:2.4 OFF:0.2
ALARM:1.4 OTHER:0
C314 1/35V
C307 0.22 35V
R304 6.8k
RV301 4.7k
C306 100/6.3V
D301 1S2837
D301 (1/2)
SDK ON:2.3 OFF:0
【CONTROL BOARD(1/5)】
IC302 LA2010
AMS
IC302
AMP
COMP
COMP 2
RESET
PROTECTOR
C321 3.3 50V
C318 0.047
C320 0.47 50V
C317 0.01
C319 0.33 35V
C323 2.2 50V
R330 8.2k
R331 330k
R332 100k
R333 FF/REW:14.3 330
R338 330
R334 33k
R335 47k
R336 47k
AMS MODE:2
AMS MODE:0
AMS,FF/REW:12.5
AMS ON:0
AMS ON:0.7
C322 33 10V
Q307 2SB822 AMS PLUNGER DRIVER
Q306
Q308
2SC536SP SWITCHING
2SC2812L6 SWITCHING
PM901 (AMS)
D303
D303 IN4002
R337 33k
S801 AMS
OFF
ON
R801 390
R802 390
D801
D802
D803
D804
D805
D806
D807
D803,804 AA3422K
D801,802,805–807 AA2222S
Q309 2SC536SP SWITCHING
D304–306 1SS119
D307 RD7.5EB2
D308
D309
D314
D315
R339 330k
R340 150k
R341 1k
R342 240k
R343 150k
R344 33k
R355 10k
R357 22k
R358 22k
R359 470k
R360 33k
C328 6.8 25V
C324 47 16V
C322 10 16V
Q315 2SA
IC306 TC9130F
SWITCHING
IC306
SENSOR SCHMITT TRIGGER
GATE
FLIP FLOP
OUTPUT BUFFER
BUFFER
TUNER ON:4.7 OFF:0
TAPE:0
TUNER ON:5.5 OFF:5.5
TUNER ON:4.8 OFF:0
R375 240
R378 10k
R374 10k
R380 10k
R381 10k
R383 100k
C341 0.33 50V
C342 0.33 50V
C345 0.33 50V
C344 0.33 50V
R371 100k
R372 100k
Q323,324 2SC536SP SWITCHING
Q324
Q323
R.SW:5.5
FM:4.7
LOCAL
MONO
【CONTROL BOARD】 (1/5)
D324
D324 RD5.6EB1 STABILIZER
C336 22 6.3V
C357 0.022
R376 240
R313 47k
C348 0.022
C339 0.022
LOCAL/DX
MONO
D809,810 GL9EG45
D809
D810
【CONTROL BOARD(1/5)】
TO FM/AM BOARD (PAGE 19)
TO FM BOARD (PAGE 22)
TO MOTHER(1/3) BOARD(PAGE 19)
TO MOTHER(1/3) BOARD(PAGE 21)
C347 0.01
C346 220 10V
Q327 2SD400 REGULATOR
D723 1SS123
D319 1N4002
Q316 2SD400 REGULATOR
+B(15.6V)
+B(5V)
C721 0.01
D723
D319
L301 4.7μH
C330 100 6.3V
C331 0.01
C329 1000 6.3V
R361 3.3k
C327 100 10V
D316
D316 RD6.2E-B2 STABILIZER
R379 2.2k
TO FM BOARD (PAGE 22)
TO AM BOARD (PAGE 21)
+B(FM)
+B(AM)
AM:8.4
BAND SW
RADIO SW
GND
(PAGE 19)
(PAGE 21)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

【TONE BOARD】

【SDK BOARD】

【CONTROL BOARD(1/5)】

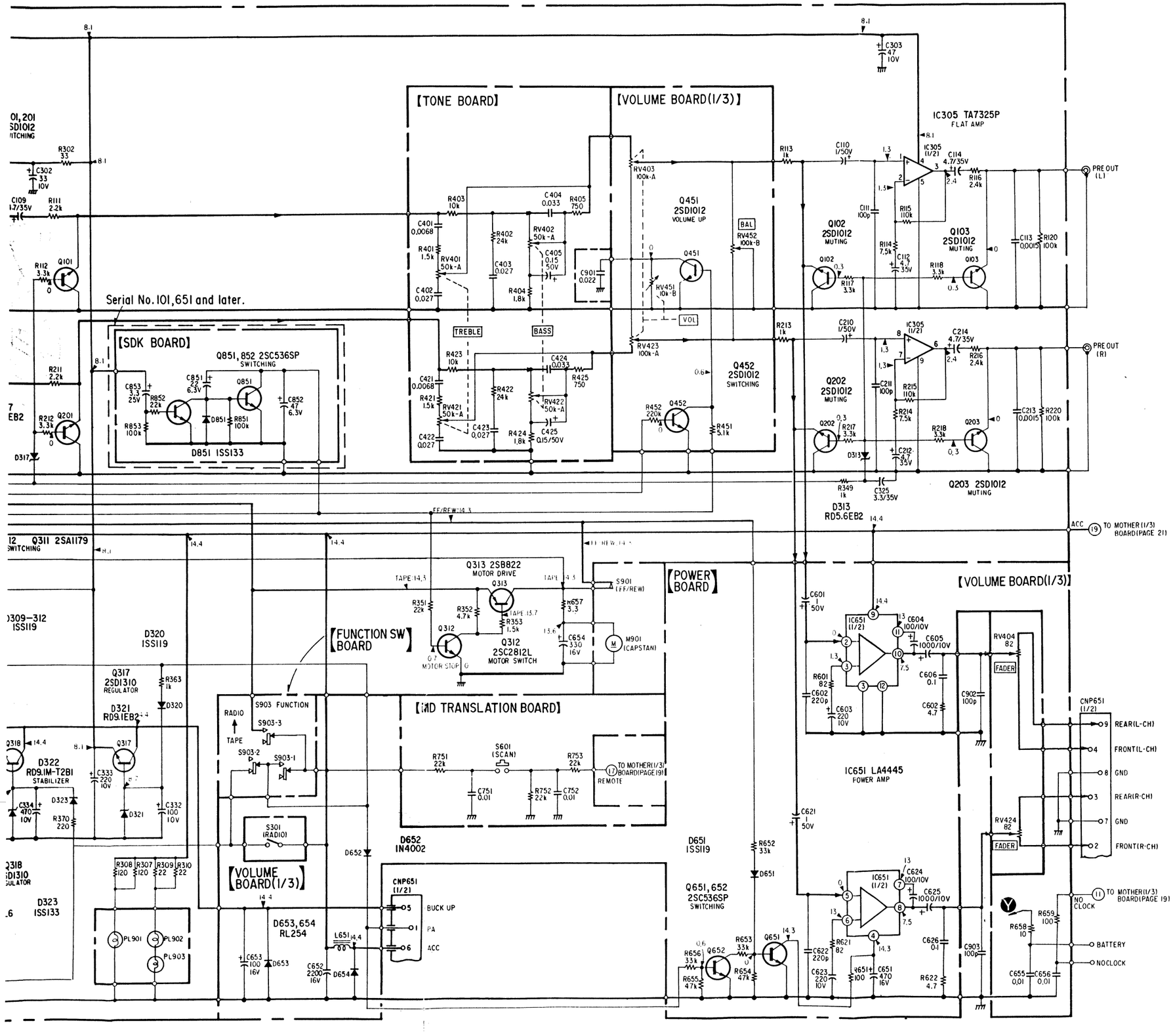
【FUNCTION SW BOARD】

【MD TRANSLATION BOARD】

【VOLUME BOARD(1/3)】

Serial No. 101,651 and later.

XR-512R



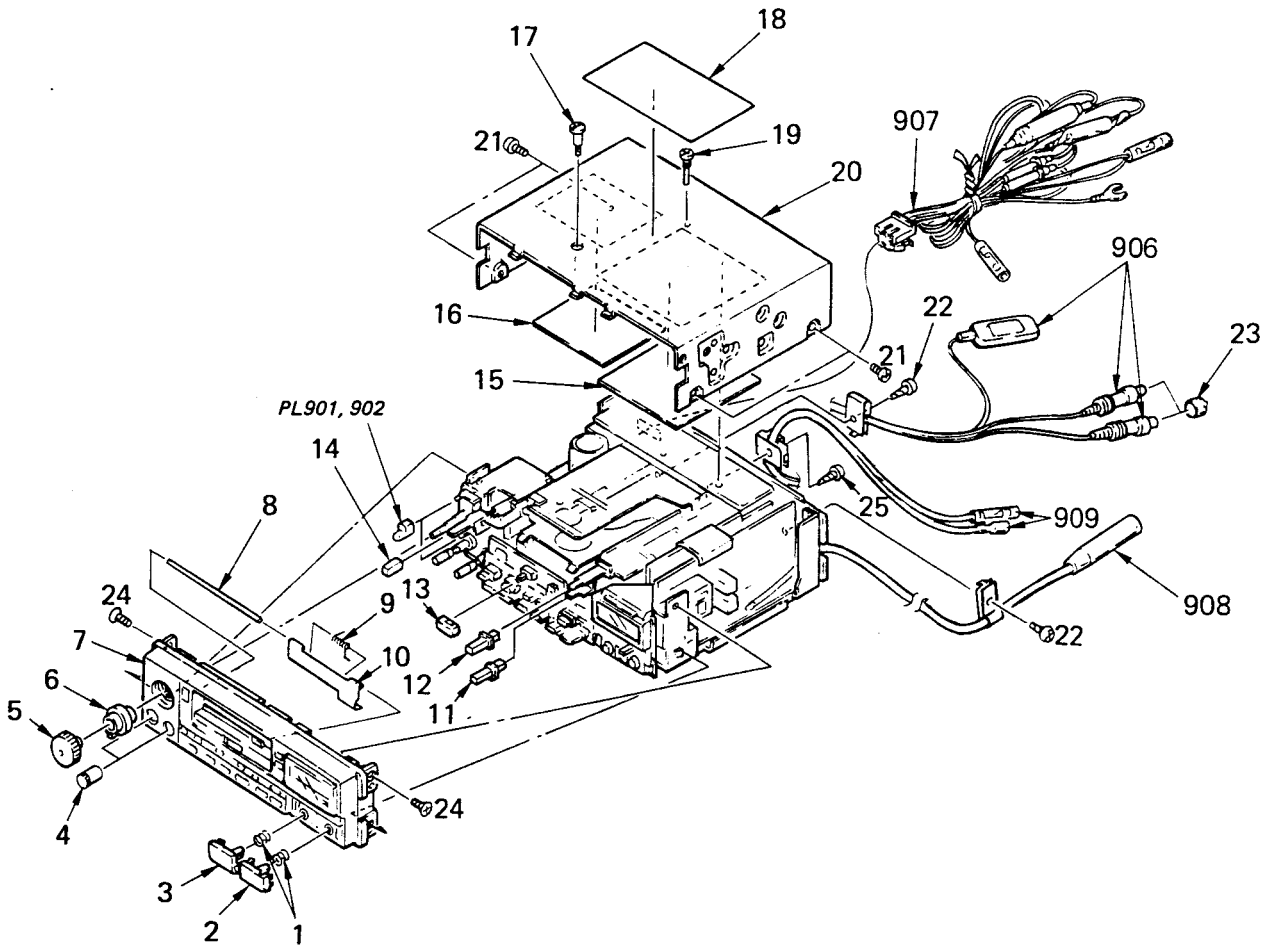
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▬▬ : B+ bus.
- ▭ : adjustment for repair.
- ——→—— : signal path.
- ——→—— : L-CH signal path.
- ——→—— : R-CH signal path.
- Power voltage is 14.4 V and fed with from dc power supply.
  Voltage are dc with respect to ground in no signal mode.
  Voltage variations may be noted due to normal production tolerances.

SECTION 3
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

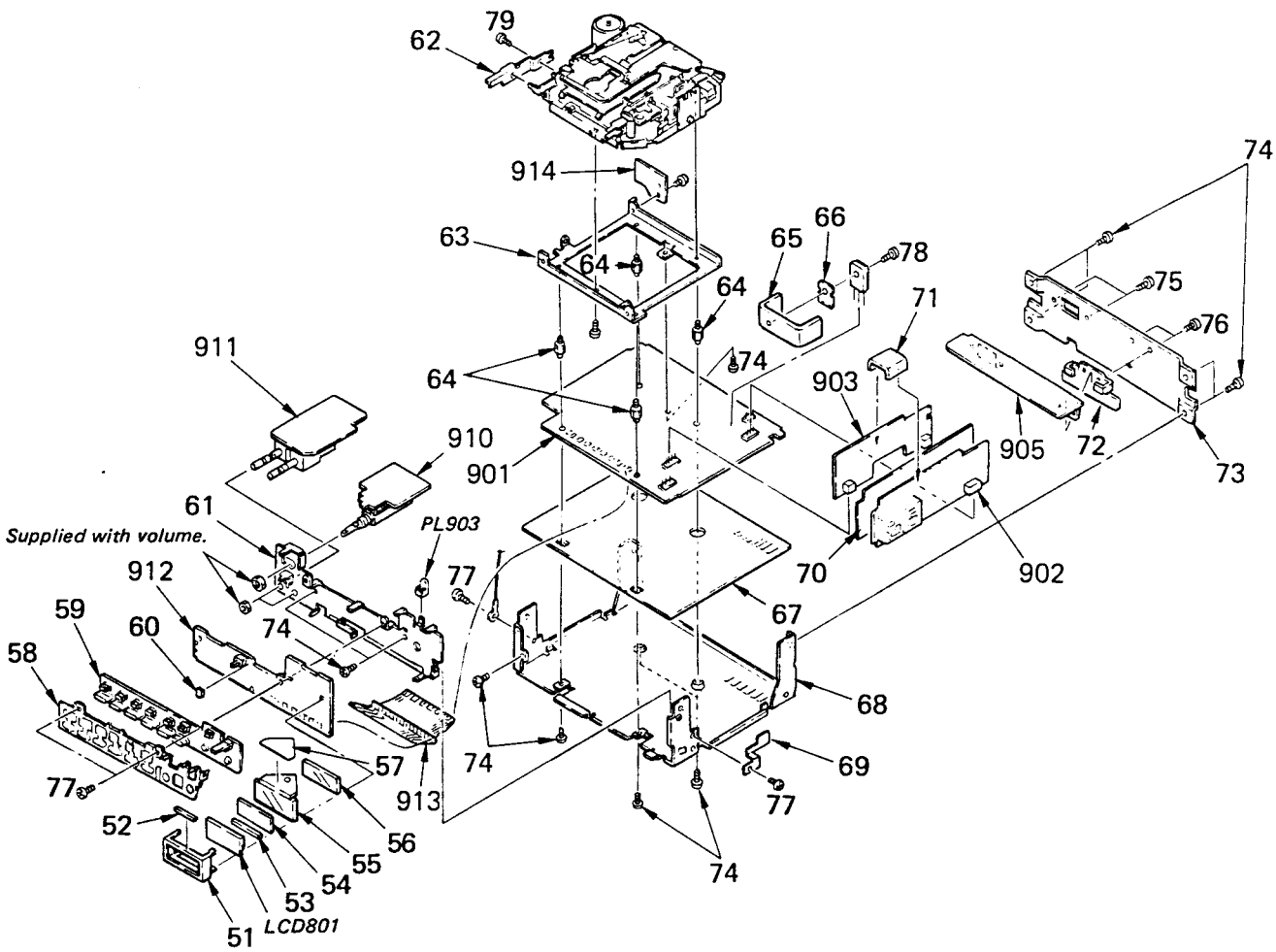
(1)



No.	Part No.	Description	Remarks
1	3-332-879-01	SPRING, COMPRESSION	
2	3-332-884-01	BUTTON, SEEK	
3	3-332-887-01	BUTTON, BAND	
4	A-3235-467-A	KNOB ASSY, TONE	
5	A-3235-459-A	KNOB ASSY, VOL	
6	3-332-851-01	BUTTON, FADER	
7	A-3241-276-A	PIECE SUB ASSY, NOSE	
8	*3-332-824-01	SHAFT, DOOR	
9	3-575-004-00	SPRING	
10	3-332-874-61	DOOR, CASSETTE	
11	3-332-830-01	BUTTON, REW	
12	3-332-831-01	BUTTON, FF	
13	3-332-857-21	BUTTON, DMA	
14	3-332-832-01	BUTTON, EJECT	

No.	Part No.	Description	Remarks
15	*3-332-814-01	LABEL, DISASSEMBLY, MD	
16	*3-332-820-01	LABEL, ADJUSTMENT	
17	*3-332-842-01	SCREW (A), STEP	
18	*3-332-815-01	LABEL, MODEL NUMBER (T) (AE6)	
19	*3-332-843-01	SCREW (B), STEP	
20	*3-332-870-11	CASE	
21	7-685-792-01	SCREW +PTT 2.6X6 (S)	
22	7-685-750-01	SCREW +P 3×5	
23	3-302-708-01	COVER, CONNECTOR	
24	7-621-559-32	SCREW +K 2.6X5	
25	7-682-544-04	SCREW +3×3	
906	1-558-416-21	CORD (WITH CONNECTOR)(JACK AND REMOTE)	
907	*1-556-841-31	CORD (WITH CONNECTOR)	
908	*1-558-560-11	CORD (WITH CONNECTOR) (ANT)	
909	*1-558-557-11	CORD, CLOCK	

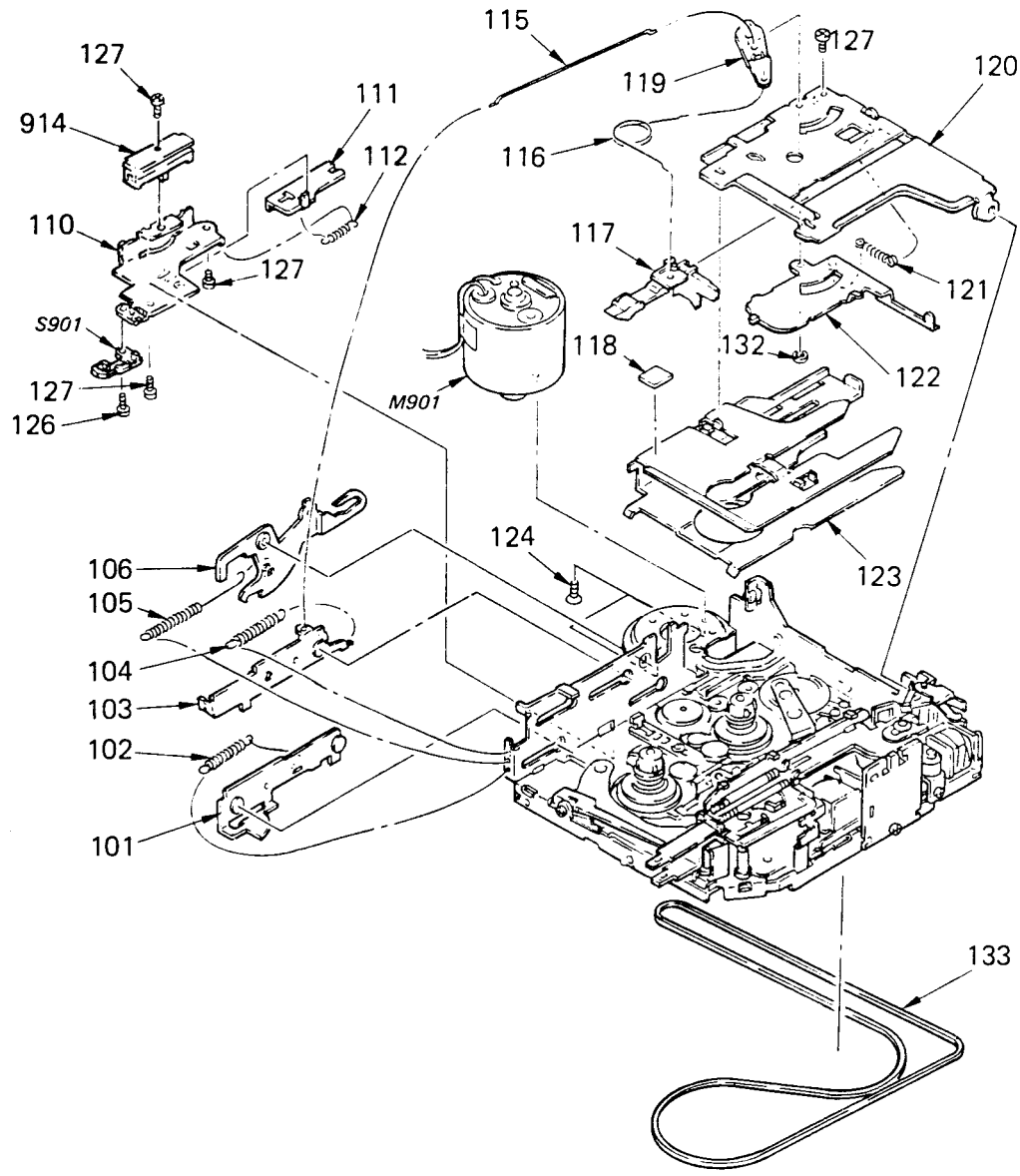
(2)



No.	Part No.	Description	Remarks
51	3-332-863-01	RETAINER, LCD	
52	4-858-767-00	COVER, LAMP	
53	3-332-844-01	CONNECTOR (LCD)	
54	*3-332-850-01	PLATE, REFLECTION	
55	*3-332-862-01	PLATE, LIGHT GUIDE	
56	*3-332-849-01	PLATE (WHITE), REFLECTION	
57	*3-332-846-01	PLATE, SHIELD	
58	*3-332-889-01	CLAMP, KEY TOP	
59	3-332-888-01	KEY TOP	
60	*3-671-888-00	CUSHION (B), BUTTON	
61	*3-332-890-01	CHASSIS, FRONT	
62	*3-332-840-01	LEVER, EJECT	
63	*3-332-868-01	BRACKET, MD	
64	3-332-836-01	SUPPORT	
65	*3-332-883-01	HEAT SINK (REG:B)	
66	3-332-848-01	SHEET (TR), INSULATING	
67	*3-332-858-01	SHEET (B), INSULATING	
68	*X-3332-801-1	PLATE ASSY, BOTTOM	
69	*3-332-873-01	PLATE, GROUND	
70	3-322-029-01	SHEET (A), INSULATING	

No.	Part No.	Description	Remarks
71	3-831-441-XX	CUSHION (PCB) (A)	
72	*3-332-877-01	HEAT SINK (B)	
73	*3-332-885-01	CHASSIS, REAR	
74	7-685-792-01	SCREW +PTT 2.6X6 (S)	
75	7-685-750-01	SCREW +PTT 3X5 (S)	
76	7-682-549-04	SCREW +P 3X10	
77	7-685-781-09	SCREW +PTT 2X4 (S)	
78	7-682-548-04	SCREW +B 3X8	
79	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
901	*A-3260-416-A	MOUNTED PCB, MOTHER	
902	*A-3266-311-A	MOUNTED PCB, FM TUNER	
903	*A-3266-314-A	MOUNTED PCB, AM TUNER	
905	*A-3279-591-A	MOUNTED PCB, POWER	
910	*1-618-561-11	PC BOARD, VOLUME	
911	*1-618-564-11	PC BOARD, TONE	
912	*1-618-566-11	PC BOARD, CONTROL	
913	1-618-567-11	PC BOARD, FLEXIBLE	
914	*1-619-149-11	PC BOARD, TRANSLATION	
LCD801	1-807-512-11	DISPLAY PANEL, LIQUID CRYSTAL	

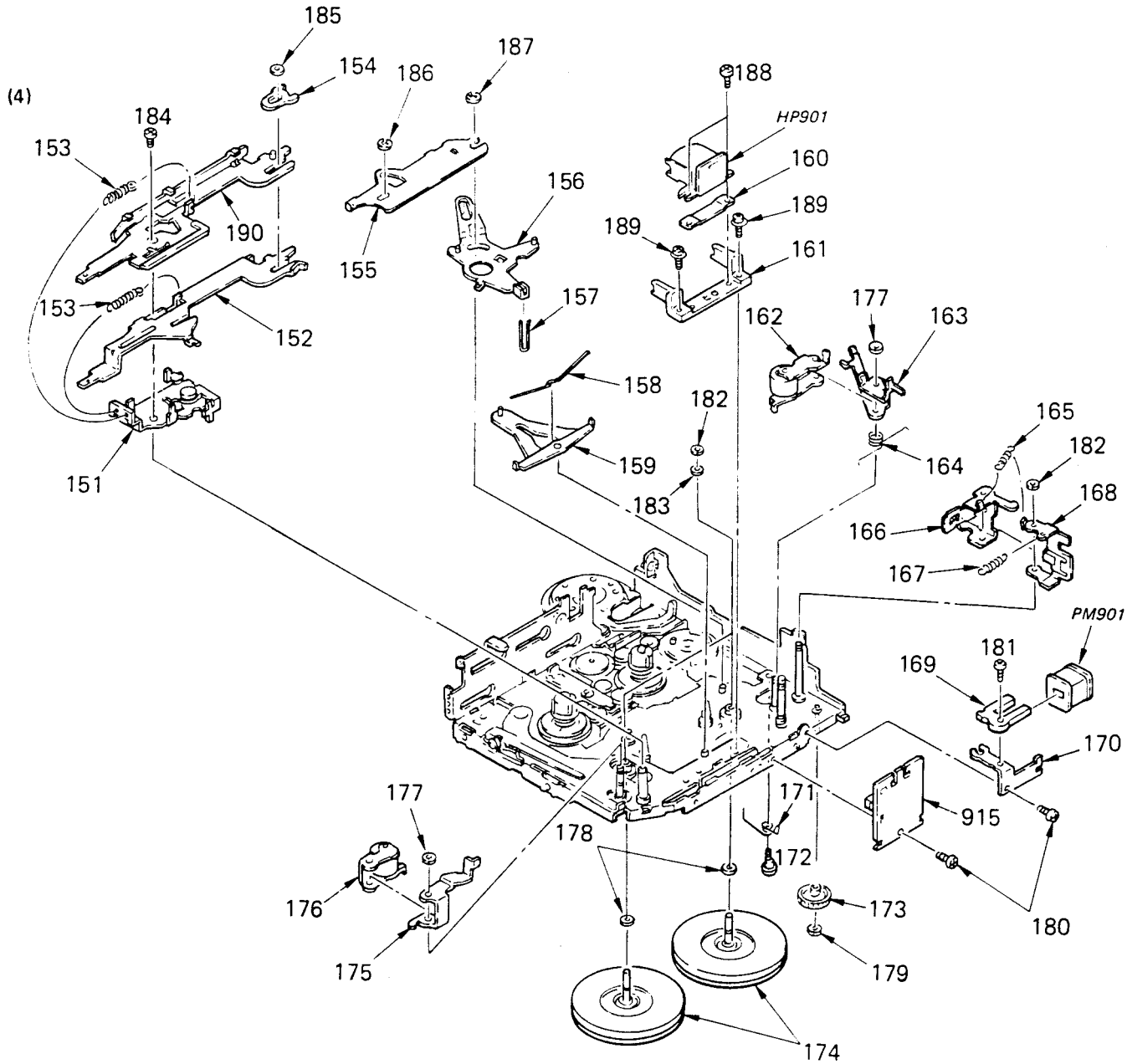
(3)



No.	Part No.	Description	Remarks
101	*3-390-660-01	RIVETING ASSY, CH PUSH PLATE (M)	
102	3-390-663-01	SPRING (M)	
103	3-390-613-01	RIVETING ASSY, PUSH LEVER	
104	*3-390-653-01	SPRING	
105	*3-390-654-01	SPRING	
106	*3-390-685-01	LEVER	
110	3-390-693-01	BRACKER, P.M (M)	
111	*3-390-652-01	PLATE, FUNCTION, SWITCH	
112	3-390-664-01	SPRING (M)	
115	*3-390-657-01	SPRING	
116	*3-390-658-01	SPRING	
117	3-390-689-01	SLIDER, PACK	
118	9-911-839-XX	RUBBER, CUSHION	
119	3-390-615-01	RIVETING ASSY, P.E PLATE	

No.	Part No.	Description	Remarks
120	*3-390-688-01	LIFTER, CASE	
121	*3-390-659-01	SPRING	
122	*3-390-690-01	PLATE, C.D	
123	*3-390-691-01	CASE, CASSETTE	
124	7-627-452-07	SCREW,-PRECISION +K 2X2	
126	7-627-852-48	PRECISION SCREW +P1.7X3.5TYPE3	
127	7-685-780-09	SCREW +PTT 2X3 (S)	
131	7-621-255-15	SCREW +P 2X3	
132	7-624-102-04	STOP RING 1.5, TYPE -E	
133	3-390-635-01	BELT, MAIN	
914	3-390-661-01	PC BOARD, FUNCTION SW	
M901	3-390-601-01	MOTOR ASSY	
S901	1-570-697-	SWITCH, LEAF	

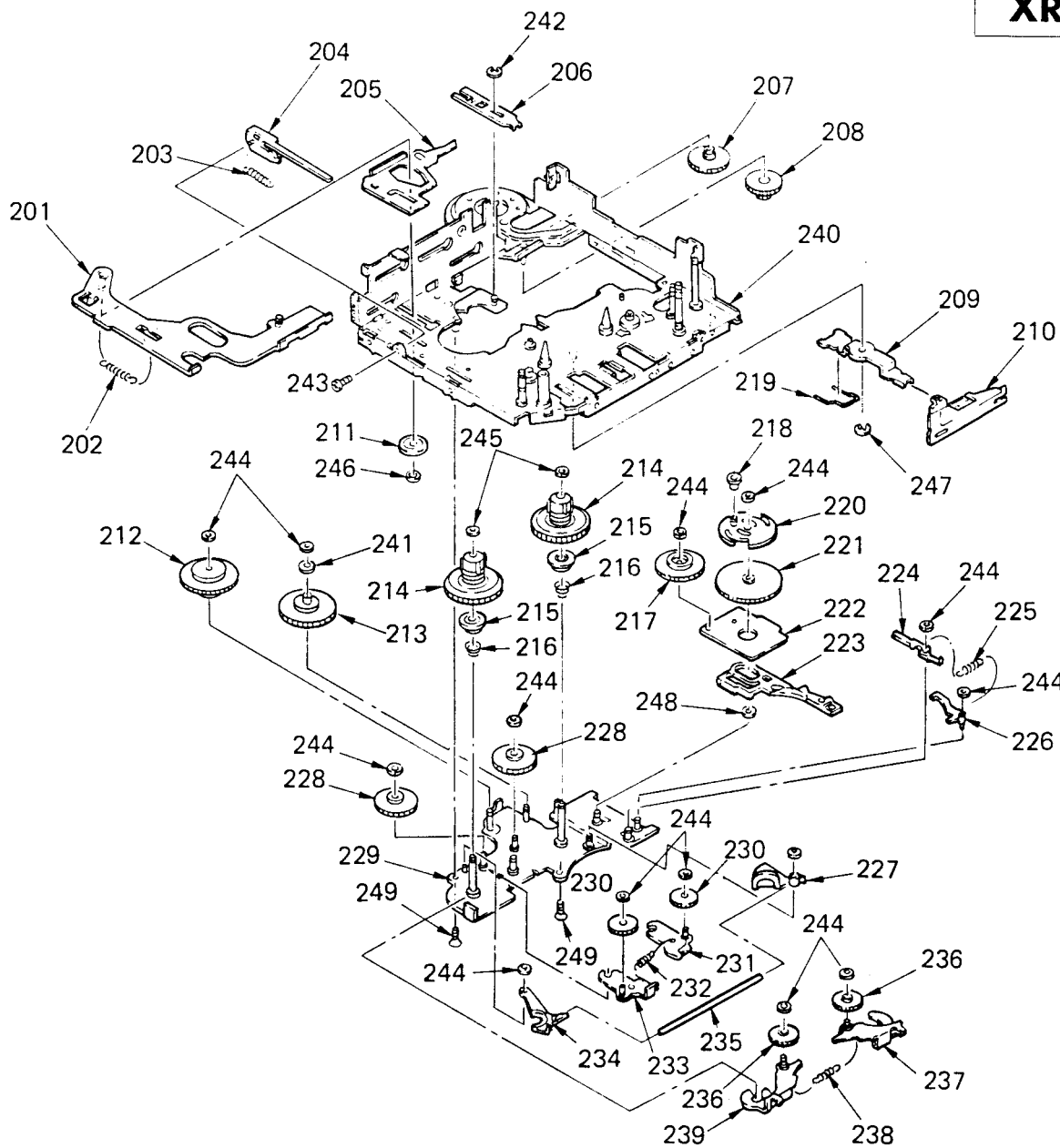
XR-512R



No.	Part No.	Description	Remarks
151	*3-390-614-01	RIVETING ASSY, F.R BRACKET	
152	*3-390-686-01	LEVER, REW	
153	*3-390-656-01	SPRING	
154	*3-390-655-01	PLATE, P.C	
155	*3-390-692-01	PLATE (M), MAIN	
156	*3-390-602-01	RIVETING ASSY, SELECTION PLATE	
157	3-390-617-01	SPRING	
158	3-390-633-01	SPRING	
159	*3-390-632-01	PLATE, FUNCTION, P.R	
160	3-390-631-01	PLATE, SP, HEAD	
161	*3-390-678-01	GUIDE, TAPE	
162	3-390-603-01	ARM (F) ASSY, PINCH ROLLER	
163	*3-390-673-01	PLATE, FUNCTION, T.S	
164	*3-390-675-01	SPRING	
165	3-390-619-01	SPRING	
166	*3-390-618-01	PLATE, LOCK, F.R	
167	3-390-621-01	SPRING	
168	*3-390-620-01	PLATE, RELEASE, F.R	
169	*3-390-625-01	CORE	
170	*3-390-626-01	BRACKET, P.L	
171	*3-390-674-01	SPRING	
172	3-390-623-01	SCREW, COLOR	

No.	Part No.	Description	Remarks
173	3-390-622-01	PULLEY, MIDWAY	
174	3-390-634-01	CAPSTAN, FL	
175	*3-390-629-01	PLATE, PULL	
176	3-390-605-01	ARM (R) ASSY, PINCH ROLLER	
177	3-318-323-01	RING, RETAINING (3)	
178	3-701-437-01	WASHER	
179	3-316-331-11	RING, STOPPER	
180	7-685-780-09	SCREW +PTT 2X3 (S)	
181	7-621-772-38	SCREW +PTT 2X6 (S)	
182	3-307-948-11	WASHER, NYLON	
183	3-701-437-11	WASHER	
184	7-628-253-95	SCREW +PS 2.6X4	
185	3-701-439-21	WASHER	
186	7-624-104-04	STOP RING 2.0, TYPE -E	
187	7-624-102-04	STOP RING 1.5, TYPE -E	
188	7-627-853-47	PRECISION SCREW +P 2X4 TYPE 3	
189	7-628-253-15	SCREW +PS 2X5	
190	*3-390-687-01	LEVER, FF	
915	3-390-604-01	PC BOARD, HEAD SELECT	
HP901	1-543-352-11	HEAD, MAGNETIC	
PM901	3-390-624-01	COIL ASSY, T	

(5)



No.	Part No.	Description	Remarks
201	*3-390-662-01	RIVETING ASSY, HEAD PANEL (M)	
202	3-390-665-01	SPRING (M)	
203	*3-390-668-01	SPRING	
204	*3-390-667-01	PLATE, TIMING	
205	*3-390-677-01	PLATE, FUNCTION, T.G	
206	*3-390-630-01	PLATE, PUSH, T.G	
207	*3-390-651-01	GEAR, MIDWAY	
208	3-390-616-01	GEAR, MAIN	
209	*3-390-627-01	PLATE, FUNCTION, F.R	
210	*3-390-676-01	PLATE, F.R SLIDE	
211	3-390-666-01	ROLLER (M), H.P	
212	3-390-611-01	CLUTCH ASSY, F.R	
213	*3-390-643-01	GEAR (LOWER), DEVICE	
214	3-390-612-01	REEL SUB ASSY, TAKE-UP	
215	*3-390-649-01	PIECE, E.D	
216	*3-390-648-01	SPRING	
217	*3-390-644-01	GEAR, D.T	
218	*3-390-650-01	COLLAR, REVERSE GEAR	
219	3-390-628-01	SPRING	
220	*3-390-682-01	GEAR, REVERSE	
221	*3-390-646-01	GEAR, T.S FUNCTION	
222	*3-390-645-01	SHEET, SLIP	
223	*3-390-681-01	PLATE, E.S	
224	*3-390-683-01	ARM, STOP	
225	*3-390-647-01	SPRING	

No.	Part No.	Description	Remarks
226	*3-390-684-01	ARM, TRIGGER	
227	*3-390-679-01	PLATE (F), E.D	
228	*3-390-641-01	GEAR, F.T	
229	*3-390-606-01	RIVETING ASSY, MG PLATE	
230	3-390-637-01	GEAR, F	
231	*3-390-607-01	RIVETING ASSY, FG PLATE	
232	3-390-636-01	SPRING	
233	*3-390-608-01	RIVETING ASSY, RG PLATE	
234	*3-390-680-01	PLATE (R), E.D	
235	*3-390-638-01	BAR, E.S PUSH	
236	*3-390-640-01	GEAR, T	
237	*3-390-609-01	RIVETING ASSY, TG PLATE (F)	
238	*3-390-639-01	SPRING	
239	*3-390-610-01	RIVETING ASSY, TG PLATE (R)	
240	*3-390-672-01	RIVETING ASSY, CHASSIS	
241	*3-390-642-01	GEAR (UPPER), DEVICE	
242	7-624-102-04	STOP RING 1.5, TYPE -E	
243	7-627-452-07	SCREW, PRECISION +K 2X2	
244	3-570-615-00	POLY-WASHER (DIA.1.2)	
245	3-307-948-11	WASHER, NYLON	
246	7-624-101-01	RING, RETAINING E-1.2	
247	7-624-104-04	STOP RING 2.0, TYPE -E	
248	3-701-439-21	WASHER	
249	7-627-452-98	SCREW, PRECISION +K 2X3.5	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description		
901	*A-3260-416-A	MOUNTED PCB, MOTHER		
902	*A-3266-311-A	MOUNTED PCB, FM TUNER		
903	*A-3266-314-A	MOUNTED PCB, AM TUNER		
905	*A-3279-591-A	MOUNTED PCB, POWER		
906	1-558-416-21	CORD (WITH CONNECTOR)(JACK AND REMOTE)		
907	*1-556-841-31	CORD (WITH CONNECTOR)		
908	*1-558-560-11	CORD (WITH CONNECTOR) (ANT)		
909	*1-558-557-11	CORD, CLOCK		
910	*1-618-561-11	PC BOARD, VOLUME		
911	*1-618-564-11	PC BOARD, TONE		
912	*1-618-566-11	PC BOARD, CONTROL		
913	1-618-567-11	PC BOARD, FLEXIBLE		
914	*1-619-149-11	PC BOARD, TRANSLATION		
C1	1-163-161-00	CERAMIC MELF 15PF	5%	50V
C2	1-163-063-00	CERAMIC MELF 0.022MF		25V
C3	1-123-306-00	ELECT 47MF	20%	10V
C4	1-123-611-00	ELECT 1MF	20%	50V
C5	1-163-059-00	CERAMIC MELF 0.01MF	20%	16V
C6	1-123-306-00	ELECT 47MF	20%	10V
C7	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V
C8	1-163-059-00	CERAMIC MELF 0.01MF	20%	16V
C9	1-163-063-00	CERAMIC MELF 0.022MF		25V
C10	1-163-063-00	CERAMIC MELF 0.022MF		25V
C11	1-163-063-00	CERAMIC MELF 0.022MF		25V
C12	1-163-063-00	CERAMIC MELF 0.022MF		25V
C13	1-123-612-00	ELECT 2.2MF	20%	50V
C14	1-163-063-00	CERAMIC MELF 0.022MF		25V
C15	1-123-607-00	ELECT 0.1MF	20%	50V
C16	1-163-169-00	CERAMIC MELF 33PF	5%	50V
C17	1-123-611-00	ELECT 1MF	20%	50V
C18	1-163-169-00	CERAMIC MELF 33PF	5%	50V
C19	1-163-063-00	CERAMIC MELF 0.022MF		25V
C20	1-123-306-00	ELECT 47MF	20%	10V
C21	1-163-169-00	CERAMIC MELF 33PF	5%	50V
C22	1-163-063-00	CERAMIC MELF 0.022MF		25V
C23	1-123-608-00	ELECT 0.22MF	20%	50V
C24	1-123-612-00	ELECT 2.2MF	20%	50V
C25	1-123-306-00	ELECT 47MF	20%	10V
C26	1-123-616-00	ELECT 4.7MF	20%	25V
C27	1-123-616-00	ELECT 4.7MF	20%	25V
C28	1-123-307-00	ELECT 100MF	20%	10V
C29	1-123-644-00	ELECT 22MF	20%	10V
C30	1-123-609-00	ELECT 0.33MF	20%	50V
C31	1-130-493-00	MYLAR 0.068MF	5%	50V
C32	1-130-471-00	MYLAR 0.001MF	5%	50V
C33	1-130-471-00	MYLAR 0.001MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C34	1-130-475-00	MYLAR	0.0022MF	5%	50V
C35	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V
C36	1-123-610-00	ELECT	0.47MF	20%	50V
C37	1-123-612-00	ELECT	2.2MF	20%	50V
C38	1-123-616-00	ELECT	4.7MF	20%	25V
C39	1-162-399-	CERAMIC MELF	0.0022MF	30%	16V
C40	1-123-622-00	ELECT	22MF	20%	16V
C41	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C42	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C43	1-123-306-00	ELECT	47MF	20%	10V
C44	1-162-400-00	CERAMIC MELF	0.0033MF	30%	16V
C45	1-123-616-00	ELECT	4.7MF	20%	25V
C46	1-163-074-00	CERAMIC CHIP	0.033MF	10%	25V
C47	1-123-611-00	ELECT	1MF	20%	50V
C48	1-123-306-00	ELECT	47MF	20%	10V
C49	1-123-611-00	ELECT	1MF	20%	50V
C50	1-123-608-00	ELECT	0.22MF	20%	50V
C51	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V
C52	1-163-064-00	CERAMIC CHIP	0.018MF	10%	50V
C53	1-163-064-00	CERAMIC CHIP	0.018MF	10%	50V
C54	1-163-033-00	CERAMIC CHIP	0.022MF	10%	25V
C55	1-162-400-00	CERAMIC MELF	0.0033MF	30%	16V
C56	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C101	1-163-201-00	CERAMIC MELF	680PF	10%	50V
C102	1-123-611-00	ELECT	1MF	20%	50V
C103	1-124-225-00	ELECT	100MF	20%	6.3V
C104	1-130-485-00	MYLAR	0.015MF	5%	50V
C105	1-124-245-00	ELECT	4.7MF	20%	25V
C106	1-124-255-00	ELECT	1MF	20%	50V
C107	1-123-612-00	ELECT	2.2MF	20%	50V
C108	1-163-157-00	CERAMIC MELF	10PF	5%	50V
C109	1-123-615-00	ELECT	4.7MF	20%	35V
C110	1-123-611-00	ELECT	1MF	20%	50V
C111	1-163-181-00	CERAMIC MELF	100PF	10%	50V
C112	1-123-615-00	ELECT	4.7MF	20%	35V
C113	1-162-435-	CERAMIC MELF	0.0015MF	20%	16V
C114	1-123-615-00	ELECT	4.7MF	20%	35V
C115	1-124-245-00	ELECT	4.7MF	20%	35V
C201	1-163-201-00	CERAMIC MELF	680PF	10%	50V
C202	1-123-611-00	ELECT	1MF	20%	50V
C203	1-124-225-00	ELECT	100MF	20%	6.3V
C204	1-130-485-00	MYLAR	0.015MF	5%	50V
C205	1-124-245-00	ELECT	4.7MF	20%	25V
C206	1-124-255-00	ELECT	1MF	20%	50V
C207	1-123-612-00	ELECT	2.2MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C208	1-163-157-00	CERAMIC MELF	10PF	5%	50V
C209	1-123-615-00	ELECT	4.7MF	20%	35V
C210	1-123-611-00	ELECT	1MF	20%	50V
C211	1-163-181-00	CERAMIC MELF	100PF	10%	50V
C212	1-123-615-00	ELECT	4.7MF	20%	35V
C213	1-162-435-	CERAMIC MELF	0.0015MF	20%	16V
C214	1-123-615-00	ELECT	4.7MF	20%	35V
C215	1-124-245-00	ELECT	4.7MF	20%	35V
C301	1-124-584-00	ELECT	100MF	20%	10V
C302	1-123-645-00	ELECT	33MF	20%	10V
C303	1-123-306-00	ELECT	47MF	20%	10V
C304	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C305	1-124-224-00	ELECT	47MF	20%	6.3V
C306	1-124-225-00	ELECT	100MF	20%	6.3V
C307	1-131-343-00	TANTALUM	0.22MF	10%	35V
C308	1-163-181-00	CERAMIC MELF	100PF	10%	50V
C309	1-124-584-00	ELECT	100MF	20%	10V
C310	1-123-647-00	ELECT	47MF	20%	6.3V
C311	1-163-155-00	CERAMIC MELF	8.2PF	10%	50V
C313	1-124-245-00	ELECT	4.7MF	20%	35V
C314	1-131-347-00	TANTALUM	1MF	10%	35V
C315	1-124-233-00	ELECT	10MF	20%	16V
C316	1-124-258-00	ELECT	3.3MF	20%	50V
C317	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C318	1-136-161-00	FILM	0.047MF	5%	50V
C319	1-131-344-00	TANTALUM	0.33MF	10%	35V
C320	1-124-253-00	ELECT	0.47MF	20%	50V
C321	1-124-258-00	ELECT	3.3MF	20%	50V
C322	1-124-229-00	ELECT	33MF	20%	10V
C323	1-124-257-00	ELECT	2.2MF	20%	50V
C324	1-123-332-00	ELECT	47MF	20%	16V
C325	1-123-613-00	ELECT	3.3MF	20%	35V
C326	1-124-233-00	ELECT	10MF	20%	16V
C327	1-123-307-00	ELECT	100MF	20%	10V
C328	1-124-239-00	ELECT	6.8MF	20%	25V
C329	1-124-471-00	ELECT	1000MF	20%	6.3V
C330	1-124-225-00	ELECT	100MF	20%	6.3V
C331	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C332	1-123-307-00	ELECT	100MF	20%	10V
C333	1-123-308-00	ELECT	220MF	20%	10V
C334	1-123-310-00	ELECT	470MF	20%	10V
C335	1-123-308-00	ELECT	220MF	20%	10V
C336	1-124-222-00	ELECT	22MF	20%	6.3V
C337	1-163-063-00	CERAMIC MELF	0.022MF		25V
C339	1-163-063-00	CERAMIC MELF	0.022MF		25V
C341	1-123-609-00	ELECT	0.33MF	20%	50V
C342	1-123-609-00	ELECT	0.33MF	20%	50V
C344	1-123-609-00	ELECT	0.33MF	20%	50V
C345	1-123-609-00	ELECT	0.33MF	20%	50V
C346	1-123-308-00	ELECT	220MF	20%	10V
C347	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C348	1-163-063-00	CERAMIC MELF	0.022MF		25V
C350	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C401	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C402	1-161-056-00	CERAMIC	0.027MF	10%	25V
C403	1-161-056-00	CERAMIC	0.027MF	10%	25V
C404	1-161-057-00	CERAMIC	0.033MF	10%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C405	1-124-177-00	ELECT	0.15MF	20%	50V
C421	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C422	1-161-056-00	CERAMIC	0.027MF	10%	25V
C423	1-161-056-00	CERAMIC	0.027MF	10%	25V
C424	1-161-057-00	CERAMIC	0.033MF	10%	25V
C425	1-124-177-00	ELECT	0.15MF	20%	50V
C501	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C502	1-163-157-00	CERAMIC MELF	10PF	5%	50V
C503	1-123-611-00	ELECT	1MF	20%	50V
C504	1-162-399-	CERAMIC MELF	0.0022MF	30%	16V
C505	1-163-063-00	CERAMIC MELF	0.022MF		25V
C506	1-123-613-00	ELECT	3.3MF	20%	35V
C507	1-123-618-00	ELECT	22MF	20%	6.3V
C508	1-163-063-00	CERAMIC MELF	0.022MF		25V
C509	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C512	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C514	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C516	1-163-063-00	CERAMIC MELF	0.022MF		25V
C517	1-163-063-00	CERAMIC MELF	0.022MF		25V
C518	1-163-063-00	CERAMIC MELF	0.022MF		25V
C520	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C521	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C523	1-103-716-00	POLYSTYRENE	430PF	5%	50V
C525	1-123-822-00	ELECT	47MF	20%	10V
C526	1-163-063-00	CERAMIC MELF	0.022MF		25V
C527	1-123-822-00	ELECT	47MF	20%	10V
C528	1-123-610-00	ELECT	0.47MF	20%	50V
C529	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C530	1-123-616-00	ELECT	4.7MF	20%	25V
C531	1-123-613-00	ELECT	3.3MF	20%	35V
C532	1-163-075-00	CERAMIC CHIP	0.047MF	10%	25V
C533	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C534	1-161-057-00	CERAMIC	0.033MF	10%	25V
C601	1-123-611-00	ELECT	1MF	20%	50V
C602	1-163-189-00	CERAMIC MELF	220PF	10%	50V
C603	1-124-444-00	ELECT	220MF	20%	10V
C604	1-123-307-00	ELECT	100MF	20%	10V
C605	1-124-473-11	ELECT	1000MF	20%	10V
C606	1-136-165-00	FILM	0.1MF	5%	50V
C621	1-123-611-00	ELECT	1MF	20%	50V
C622	1-163-189-00	CERAMIC MELF	220PF	10%	50V
C623	1-124-444-00	ELECT	220MF	20%	10V
C624	1-123-307-00	ELECT	100MF	20%	10V
C625	1-124-473-11	ELECT	1000MF	20%	10V
C626	1-136-165-00	FILM	0.1MF	5%	50V
C651	1-124-475-11	ELECT	470MF	20%	16V
C652	1-124-343-00	ELECT	2200MF	20%	16V
C653	1-123-333-00	ELECT	100MF	20%	16V
C654	1-124-119-00	ELECT	330MF	20%	16V
C655	1-161-013-00	CERAMIC	0.01MF	10%	25V
C656	1-161-013-00	CERAMIC	0.01MF	10%	25V
C701	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C702	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C703	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C704	1-124-257-00	ELECT	2.2MF	20%	50V
C705	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C706	1-124-239-00	ELECT	6.8MF	20%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C707	1-161-013-00	CERAMIC	0.01MF	10%	25V
C708	1-123-307-00	ELECT	100MF	20%	10V
C709	1-124-236-00	ELECT	47MF	20%	10V
C710	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C711	1-162-359-	CERAMIC MELF	18PF	5%	50V
C712	1-102-515-00	CERAMIC	24PF	5%	50V
C713	1-161-055-00	CERAMIC	0.022MF	10%	25V
C714	1-161-013-00	CERAMIC	0.01MF	10%	25V
C715	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C716	1-163-063-00	CERAMIC MELF	0.022MF		25V
C718	1-161-055-00	CERAMIC	0.022MF	10%	25V
C719	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C720	1-163-063-00	CERAMIC MELF	0.022MF		25V
C721	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C723	1-162-358-11	CERAMIC MELF	15PF	5%	50V
C724	1-163-063-00	CERAMIC	0.022MF		
C750	1-163-063-00	CERAMIC	0.022MF		
C751	1-101-004-00	CERAMIC	0.01MF	50V	
C752	1-101-004-00	CERAMIC	0.01MF	50V	
C851	1-124-222-00	(Serial No.101,651 and later)...ELECT 22MF 20%6.3V			
C852	1-124-224-00	(Serial No.101,651 and later)...ELECT 47MF 20%6.3V			
C853	1-124-258-00	(Serial No.101,651 and later)...ELECT 3.3MF 20%25V			
C901	1-161-055-00	CAP, CERAMIC 0.022MF X			
C902	1-102-973-00	CAP, CERAMIC 100PF SL			
C903	1-102-973-00	CAP, CERAMIC 100PF SL			
CF1	1-567-415-11	FILTER, CERAMIC			
CF2	1-567-415-11	FILTER, CERAMIC			
CF3	1-567-415-11	FILTER, CERAMIC			
CF501	1-567-309-11	FILTER, CERAMIC			
CF502	1-527-981-00	FILTER, CERAMIC			
CNJ1	*1-562-637-11	SOCKET, CONNECTOR 6P			
CNJ2	*1-562-639-11	SOCKET, CONNECTOR 10P			
CNJ501	*1-562-638-11	SOCKET, CONNECTOR 8P			
CNJ502	*1-562-637-11	SOCKET, CONNECTOR 6P			
CNP1	*1-506-496-11	PIN, CONNECTOR 3P			
CNP2	*1-506-496-11	PIN, CONNECTOR 3P			
CNP3	*1-506-496-11	PIN, CONNECTOR 3P			
CNP4	*1-506-497-11	PIN, CONNECTOR 5P			
CNP5	*1-506-756-11	PIN, CONNECTOR 7P			
CNP6	*1-506-496-11	PIN, CONNECTOR 3P			
CNP7	*1-506-496-11	PIN, CONNECTOR 3P			
CNP8	*1-506-755-11	PIN, CONNECTOR 4P			
CNP9	*1-506-496-	PIN, CONNECTOR 3P			
CNP10	*1-506-499-11	PIN, CONNECTOR 8P			
CNP11	*1-506-497-11	PIN, CONNECTOR 5P			
CNP12	*1-506-496-11	PIN, CONNECTOR 3P			
CNP13	*1-506-496-	PIN, CONNECTOR 3P			
CNP14	*1-506-755-11	PIN, CONNECTOR 4P			
CNP501	*1-564-678-11	PIN, CONNECTOR 6P			
CNP502	*1-564-680-11	PIN, CONNECTOR 10P			
CNP503	*1-564-679-11	PIN, CONNECTOR 8P			
CNP504	*1-564-678-11	PIN, CONNECTOR 6P			
CNP651	1-162-143-00				
CT501	1-141-229-00	CAP, TRIMMER			
CT502	1-141-232-00	CAP, TRIMMER			
CT503	1-141-227-00	CAP, CERAMIC TRIMMER			
CT701	1-141-241-00	CAP, TRIMMER			
D1	8-719-911-19	DIODE 1SS119			
D2	8-719-911-19	DIODE 1SS119			
D3	8-719-911-19	DIODE 1SS119			
D4	8-719-911-19	DIODE 1SS119			
D5	8-719-911-19	DIODE 1SS119			
D6	8-719-911-19	DIODE 1SS119			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D7	8-719-911-19	DIODE 1SS119
D8	8-719-911-19	DIODE 1SS119
D9	8-719-911-19	DIODE 1SS119
D301	8-719-100-05	DIODE 1S2837
D302	8-719-911-19	DIODE 1SS119
D303	8-719-200-02	DIODE 10E-2
D304	8-719-911-19	DIODE 1SS119
D305	8-719-911-19	DIODE 1SS119
D306	8-719-911-19	DIODE 1SS119
D307	8-719-100-44	DIODE RD7.5EB2
D308	8-719-911-19	DIODE 1SS119
D309	8-719-911-19	DIODE 1SS119
D310	8-719-911-19	DIODE 1SS119
D311	8-719-911-19	DIODE 1SS119
D312	8-719-911-19	DIODE 1SS119
D313	8-719-100-34	DIODE RD5.6EB1
D314	8-719-911-19	DIODE 1SS119
D315	8-719-911-19	DIODE 1SS119
D316	8-719-100-39	DIODE RD6.2EB3
D317	8-719-100-34	DIODE RD5.6EB1
D319	8-719-900-02	DIODE 10E-2
D320	8-719-911-19	DIODE 1SS119
D321	8-719-100-54	DIODE RD9.1EB2
D322	8-719-100-54	DIODE RD9.1EB2
D323	8-719-911-19	DIODE 1SS119
D324	8-719-100-34	DIODE RD5.6EB1
D501	8-719-101-23	DIODE 1SS123
D503	8-719-106-43	DIODE RD9.1M-B1
D504	8-719-106-43	DIODE RD9.1M-B1
D505	8-719-911-19	DIODE 1SS119
D506	8-719-903-24	DIODE SVC321SP-A2
D507	8-719-903-24	DIODE SVC321SP-A2
D508	8-719-903-24	DIODE SVC321SP-A2
D509	8-719-911-19	DIODE 1SS119
D510	8-719-911-19	DIODE 1SS119
D511	8-719-911-19	DIODE 1SS119
D651	8-719-911-19	DIODE 1SS119
D652	8-719-200-02	DIODE 10E-2
D653	8-719-911-55	DIODE U05G
D654	8-719-911-55	DIODE U05G
D701	8-719-100-56	DIODE RD10EB1
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D708	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D712	8-719-911-19	DIODE 1SS119
D713	8-719-911-19	DIODE 1SS119
D714	8-719-911-19	DIODE 1SS119
D715	8-719-100-05	DIODE 1S2837
D716	8-719-100-05	DIODE 1S2837
D718	8-719-911-19	DIODE 1SS119
D719	8-719-100-05	DIODE 1S2837

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D720	8-719-911-19	DIODE 1SS119
D721	8-719-911-19	DIODE 1SS119
D722	8-719-911-19	DIODE 1SS119
D723	8-719-101-23	DIODE 1SS123
D724	8-719-911-19	DIODE 1SS119
D725	8-719-911-19	DIODE 1SS119
D729	8-719-911-19	DIODE 1SS119
D801	8-719-907-53	DIODE AA2222S
D802	8-719-907-53	DIODE AA2222S
D803	1-807-013-11	DIODE AA3422K (LED)
D804	1-807-013-11	DIODE AA3422K (LED)
D805	8-719-907-53	DIODE AA2222S
D806	8-719-907-53	DIODE AA2222S
D807	8-719-907-53	DIODE AA2222S
D809	1-807-436-11	DIODE GL9EG45 (LED)
D810	1-807-436-11	DIODE GL9EG45 (LED)
D811	1-806-861-11	DIODE BG2202S (LED)
D812	1-806-861-11	DIODE BG2202S (LED)
D851	8-719-901-33	(Serial No.101,651)...DIODE 1SS133
F901	1-532-360-XX	FUSE
F902	1-532-419-00	FUSE
FE1	1-463-710-11	FRONT END (FM)
HP901	1-543-352-11	HEAD, MAGNETIC
IC1	8-759-811-40	IC LA1140
IC2	1-807-411-11	IC LA2220
IC3	8-759-800-17	IC LA2110
IC4	8-759-801-22	IC LA3430
IC301	8-759-105-60	IC UPC1228HA
IC302	8-759-800-71	IC LA2010
IC303	1-807-410-11	LA2211
IC304	8-759-145-58	IC UPC4558C
IC305	8-759-273-25	IC TA7325P
IC306	1-807-426-11	TC9130F
IC501	1-806-985-11	IC LA1135
IC651	1-806-801-11	IC LA4445
IC701	1-807-435-11	IC UPD1708AG-020
JR1	1-249-366-11	CARBON MELF 0 5% 1/5W
JR501	1-249-366-11	CARBON MELF 0 5% 1/5W
JR502	1-249-366-11	CARBON MELF 0 5% 1/5W
JR701	1-249-366-11	CARBON MELF 0 5% 1/5W
L1	1-408-579-00	MICRO INDUCTOR 220UH
L301	1-408-559-00	MICRO INDUCTOR 4.7UH
L501	1-408-559-00	MICRO INDUCTOR 4.7UH
L502	1-408-559-00	MICRO INDUCTOR 4.7UH
L503	1-408-551-00	MICRO INDUCTOR 1UH
L504	1-408-555-00	MICRO INDUCTOR 2.2UH
L505	1-426-232-11	COIL, MW RF (PRI)
L507	1-426-233-11	COIL, MW RF (SEC)
L509	1-406-136-11	COIL, MW OSC
L651	1-408-904-00	COIL, CHOKE
L701	1-408-579-00	MICRO INDUCTOR 220UH
LCD801	1-807-512-11	DISPLAY PANEL, LIQUID CRYSTAL
M901	3-390-601-01	MOTOR ASSY
PL901	1-518-570-21	LAMP, PILOT
PL902	1-518-570-21	LAMP, PILOT
PL903	1-518-570-21	LAMP, PILOT
PM901	3-390-624-01	COIL ASSY

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q1	8-729-178-54	TRANSISTOR 2SC2785
Q2	8-729-803-45	TRANSISTOR 2SC930-SP
Q3	8-729-803-45	TRANSISTOR 2SC930-SP
Q4	8-729-178-54	TRANSISTOR 2SC2785
Q5	8-729-100-66	TRANSISTOR 2SC1623
Q6	8-729-100-76	TRANSISTOR 2SA812
Q101	8-729-102-04	TRANSISTOR 2SD1020F
Q102	8-729-102-04	TRANSISTOR 2SD1020F
Q103	8-729-102-04	TRANSISTOR 2SD1020F
Q201	8-729-102-04	TRANSISTOR 2SD1020F
Q202	8-729-102-04	TRANSISTOR 2SD1020F
Q203	8-729-102-04	TRANSISTOR 2SD1020F
Q301	8-729-178-54	TRANSISTOR 2SC2785
Q302	8-729-178-54	TRANSISTOR 2SC2785
Q303	8-729-204-83	TRANSISTOR 2SA1048-GR
Q304	8-729-178-54	TRANSISTOR 2SC2785
Q305	8-729-178-54	TRANSISTOR 2SC2785
Q306	8-729-100-66	TRANSISTOR 2SC1623
Q307	8-729-982-22	TRANSISTOR 2SB822
Q308	8-729-100-66	TRANSISTOR 2SC1623
Q309	8-729-178-54	TRANSISTOR 2SC2785
Q310	8-729-178-54	TRANSISTOR 2SC2785
Q311	8-729-100-76	TRANSISTOR 2SA812
Q312	8-729-100-66	TRANSISTOR 2SC1623
Q313	8-729-982-22	TRANSISTOR 2SB822
Q314	8-729-100-66	TRANSISTOR 2SC1623
Q315	8-729-100-76	TRANSISTOR 2SA812
Q316	8-729-177-43	TRANSISTOR 2SD774
Q317	8-729-177-43	TRANSISTOR 2SD774
Q318	8-729-103-33	TRANSISTOR 2SD1310
Q319	8-729-195-23	TRANSISTOR 2SA952
Q320	8-729-100-66	TRANSISTOR 2SC1623
Q321	8-729-100-76	TRANSISTOR 2SA812
Q322	8-729-100-66	TRANSISTOR 2SC1623
Q323	8-729-178-54	TRANSISTOR 2SC2785
Q324	8-729-100-66	TRANSISTOR 2SC1623
Q325	8-729-100-66	TRANSISTOR 2SC1623
Q327	8-729-177-43	TRANSISTOR 2SD774
Q451	8-729-102-03	TRANSISTOR 2SD1020
Q452	8-729-178-54	TRANSISTOR 2SC2785
Q501	8-729-102-03	TRANSISTOR 2SD1020F
Q502	8-729-803-45	TRANSISTOR 2SC930-SP
Q503	8-729-178-54	TRANSISTOR 2SC2785
Q504	1-807-429-11	TRANSISTOR 2SK519
Q511	8-729-178-54	TRANSISTOR 2SC2785
Q512	8-729-178-54	TRANSISTOR 2SC2785
Q651	8-729-178-54	TRANSISTOR 2SC2785
Q652	8-729-178-54	TRANSISTOR 2SC2785
Q701	8-729-245-84	TRANSISTOR 2SC2458
Q702	8-729-245-84	TRANSISTOR 2SC2458
Q703	8-729-245-84	TRANSISTOR 2SC2458
Q704	8-729-245-84	TRANSISTOR 2SC2458
Q705	8-729-102-04	TRANSISTOR 2SD1020F
Q706	8-729-102-04	TRANSISTOR 2SD1020F
Q707	8-729-178-54	TRANSISTOR 2SC2785
Q708	8-729-204-83	TRANSISTOR 2SA1048-GR
Q709	8-729-178-54	TRANSISTOR 2SC2785

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q710	8-729-178-54	TRANSISTOR 2SC2785
Q711	8-729-178-54	TRANSISTOR 2SC2785
Q712	8-729-178-54	TRANSISTOR 2SC2785
Q713	8-729-100-66	TRANSISTOR 2SC1623
Q714	8-729-100-66	TRANSISTOR 2SC1623
Q715	8-729-100-66	TRANSISTOR 2SC1623
Q716	8-729-204-83	TRANSISTOR 2SA1048-GR
Q851	8-729-853-63	(Serial No. 101, 651 and later) ...TRANSISTOR 2SC536SP
Q852	8-729-853-63	(Serial No. 101, 651 and later) ...TRANSISTOR 2SC536SP
R1	1-247-815-00	CARBON MELF 220 5% 1/5W
R2	1-249-437-11	CARBON MELF 47K 5% 1/5W
R3	1-247-848-00	CARBON MELF 5.1K 5% 1/5W
R4	1-249-425-11	CARBON MELF 4.7K 5% 1/5W
R5	1-247-887-00	CARBON MELF 220K 5% 1/5W
R6	1-247-815-00	CARBON MELF 220 5% 1/5W
R7	1-249-429-11	CARBON 10K 5% 1/6W
R8	1-247-819-00	CARBON MELF 330 5% 1/5W
R9	1-249-405-11	CARBON MELF 100 5% 1/5W
R10	1-247-895-00	CARBON MELF 470K 5% 1/5W
R11	1-247-819-00	CARBON MELF 330 5% 1/5W
R12	1-249-405-11	CARBON MELF 100 5% 1/5W
R13	1-247-819-00	CARBON MELF 330 5% 1/5W
R14	1-247-876-00	CARBON MELF 75K 5% 1/5W
R15	1-249-433-11	CARBON MELF 22K 5% 1/5W
R16	1-249-437-11	CARBON MELF 47K 5% 1/5W
R17	1-249-437-11	CARBON MELF 47K 5% 1/5W
R18	1-249-434-11	CARBON MELF 27K 5% 1/5W
R19	1-249-441-11	CARBON MELF 100K 5% 1/5W
R20	1-247-859-00	CARBON MELF 15K 5% 1/5W
R21	1-247-783-00	CARBON MELF 10 5% 1/5W
R22	1-249-440-11	CARBON MELF 82K 5% 1/5W
R23	1-249-429-11	CARBON MELF 10K 5% 1/5W
R24	1-247-173-00	CARBON 56K 5% 1/4W
R25	1-247-850-00	CARBON MELF 6.2K 5% 1/5W
R26	1-249-417-11	CARBON MELF 1K 5% 1/5W
R27	1-247-799-00	CARBON MELF 47 5% 1/5W
R28	1-249-421-11	CARBON MELF 2.2K 5% 1/5W
R29	1-247-887-00	CARBON MELF 220K 5% 1/5W
R30	1-247-833-00	CARBON MELF 1.2K 5% 1/5W
R31	1-247-783-00	CARBON MELF 10 5% 1/5W
R32	1-247-853-00	CARBON MELF 8.2K 5% 1/5W
R33	1-249-420-11	CARBON MELF 1.8K 5% 1/5W
R34	1-247-812-00	CARBON MELF 160 5% 1/5W
R35	1-249-437-11	CARBON MELF 47K 5% 1/5W
R36	1-249-425-11	CARBON MELF 4.7K 5% 1/5W
R37	1-249-433-11	CARBON MELF 22K 5% 1/5W
R38	1-249-423-11	CARBON MELF 3.3K 5% 1/5W
R39	1-247-850-00	CARBON MELF 6.2K 5% 1/5W
R40	1-249-437-11	CARBON MELF 47K 5% 1/5W
R41	1-247-849-00	CARBON MELF 5.6K 5% 1/5W
R42	1-247-783-00	CARBON MELF 10 5% 1/5W
R43	1-249-422-11	CARBON MELF 4.3K 5% 1/5W
R47	1-249-432-11	CARBON MELF 18K 5% 1/5W
R48	1-249-433-11	CARBON MELF 22K 5% 1/5W
R49	1-249-417-11	CARBON 1K 5% 1/6W
R50	1-249-417-11	CARBON 1K 5% 1/6W
R51	1-249-435-11	CARBON MELF 33K 5% 1/5W
R52	1-247-783-00	CARBON MELF 10 5% 1/5W
R53	1-247-848-00	CARBON MELF 5.1K 5% 1/5W
R54	1-249-421-11	CARBON MELF 2.2K 5% 1/5W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R55	1-247-852-00	CARBON MELF 7.5K 5% 1/5W
R56	1-247-173-00	CARBON MELF 56K 5% 1/5W
R57	1-249-432-11	CARBON MELF 18K 5% 1/5W
R58	1-249-423-11	CARBON MELF 3.3K 5% 1/5W
R59	1-247-843-00	CARBON 3.3K 5% 1/6W
R64	1-247-819-00	CARBON MELF 330 5% 1/5W
R65	1-247-791-00	CARBON MELF 22 5% 1/5W
R66	1-249-405-11	CARBON MELF 100 5% 1/5W
R67	1-247-817-00	CARBON MELF 270 5% 1/5W
R101	1-247-808-00	CARBON 110 5% 1/6W
R102	1-247-887-00	CARBON 220K 5% 1/6W
R103	1-247-854-00	CARBON MELF 9.1K 5% 1/5W
R104	1-249-429-11	CARBON 10K 5% 1/6W
R105	1-247-833-00	CARBON 1.2K 5% 1/6W
R106	1-249-437-11	CARBON MELF 47K 5% 1/5W
R107	1-249-441-11	CARBON MELF 100K 5% 1/5W
R108	1-249-440-11	CARBON MELF 82K 5% 1/5W
R109	1-247-856-00	CARBON MELF 11K 5% 1/5W
R110	1-249-441-11	CARBON MELF 100K 5% 1/5W
R111	1-249-421-11	CARBON MELF 2.2K 5% 1/5W
R112	1-247-843-00	CARBON 3.3K 5% 1/6W
R113	1-249-417-11	CARBON 1K 5% 1/6W
R114	1-247-852-00	CARBON 7.5K 5% 1/6W
R115	1-247-880-00	CARBON 110K 5% 1/6W
R116	1-247-840-00	CARBON MELF 2.4K 5% 1/5W
R117	1-249-423-11	CARBON MELF 3.3K 5% 1/5W
R118	1-247-843-00	CARBON 3.3K 5% 1/6W
R119	1-249-414-11	CARBON MELF 560 5% 1/5W
R120	1-249-441-11	CARBON 100K 5% 1/6W
R201	1-247-808-00	CARBON 110 5% 1/6W
R202	1-247-887-00	CARBON 220K 5% 1/6W
R203	1-247-854-00	CARBON MELF 9.1K 5% 1/5W
R204	1-249-429-11	CARBON 10K 5% 1/6W
R205	1-247-833-00	CARBON 1.2K 5% 1/6W
R206	1-249-437-11	CARBON MELF 47K 5% 1/5W
R207	1-249-441-11	CARBON MELF 100K 5% 1/5W
R208	1-249-440-11	CARBON MELF 82K 5% 1/5W
R209	1-247-856-00	CARBON MELF 11K 5% 1/5W
R210	1-249-441-11	CARBON MELF 100K 5% 1/5W
R211	1-249-421-11	CARBON MELF 2.2K 5% 1/5W
R212	1-247-843-00	CARBON 3.3K 5% 1/6W
R213	1-249-417-11	CARBON 1K 5% 1/6W
R214	1-247-852-00	CARBON 7.5K 5% 1/6W
R215	1-247-880-00	CARBON 110K 5% 1/6W
R216	1-247-840-00	CARBON MELF 2.4K 5% 1/5W
R217	1-247-843-00	CARBON 3.3K 5% 1/6W
R218	1-247-843-00	CARBON 3.3K 5% 1/6W
R219	1-249-414-11	CARBON MELF 560 5% 1/5W
R220	1-249-441-11	CARBON 100K 5% 1/6W
R301	1-247-795-00	CARBON 33 5% 1/6W
R302	1-247-795-00	CARBON 33 5% 1/6W
R303	1-249-441-11	CARBON MELF 100K 5% 1/5W
R304	1-247-851-00	CARBON MELF 6.8K 5% 1/5W
R305	1-247-901-00	CARBON MELF 820K 5% 1/5W
R306	1-247-889-00	CARBON 270K 5% 1/6W
R307	1-247-809-00	CARBON MELF 120 5% 1/5W
R308	1-247-809-00	CARBON MELF 120 5% 1/5W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R309	1-247-791-00	CARBON MELF	22	5%	1/5W
R310	1-247-791-00	CARBON MELF	22	5%	1/5W
R311	1-247-795-00	CARBON MELF	33	5%	1/5W
R312	1-247-903-00	CARBON MELF	1M	5%	1/5W
R313	1-249-437-11	CARBON	47K	5%	1/6W
R314	1-249-425-11	CARBON	4.7K	5%	1/6W
R315	1-249-417-11	CARBON MELF	1K	5%	1/5W
R316	1-249-437-11	CARBON	47K	5%	1/6W
R317	1-249-435-11	CARBON	33K	5%	1/6W
R318	1-249-437-11	CARBON MELF	47K	5%	1/5W
R319	1-247-851-00	CARBON	6.8K	5%	1/6W
R320	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R321	1-249-433-11	CARBON MELF	22K	5%	1/5W
R322	1-249-417-11	CARBON MELF	1K	5%	1/5W
R323	1-249-429-11	CARBON MELF	10K	5%	1/5W
R324	1-249-429-11	CARBON	10K	5%	1/6W
R325	1-249-433-11	CARBON	22K	5%	1/6W
R326	1-249-433-11	CARBON	22K	5%	1/6W
R327	1-247-849-00	CARBON	5.6K	5%	1/6W
R328	1-249-429-11	CARBON MELF	10K	5%	1/5W
R330	1-247-853-00	CARBON MELF	8.2K	5%	1/5W
R331	1-247-891-00	CARBON MELF	330K	5%	1/5W
R332	1-249-441-11	CARBON	100K	5%	1/6W
R333	1-247-819-00	CARBON	330	5%	1/6W
R334	1-249-435-11	CARBON MELF	33K	5%	1/5W
R335	1-249-437-11	CARBON MELF	47K	5%	1/5W
R336	1-249-437-11	CARBON MELF	47K	5%	1/5W
R337	1-249-435-11	CARBON MELF	33K	5%	1/5W
R338	1-247-819-00	CARBON	330	5%	1/6W
R339	1-247-891-00	CARBON	330K	5%	1/6W
R340	1-247-883-00	CARBON	150K	5%	1/6W
R341	1-249-417-11	CARBON	1K	5%	1/6W
R342	1-247-888-00	CARBON MELF	240K	5%	1/5W
R343	1-247-883-00	CARBON	150K	5%	1/6W
R344	1-249-435-11	CARBON	33K	5%	1/6W
R345	1-249-435-11	CARBON MELF	33K	5%	1/5W
R346	1-249-437-11	CARBON	47K	5%	1/6W
R347	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R348	1-249-435-11	CARBON MELF	33K	5%	1/5W
R349	1-249-417-11	CARBON MELF	1K	5%	1/5W
R350	1-249-421-11	CARBON	2.2K	5%	1/6W
R351	1-249-433-11	CARBON MELF	22K	5%	1/5W
R352	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R353	1-249-419-11	CARBON MELF	1.5K	5%	1/5W
R354	1-249-437-11	CARBON	47K	5%	1/6W
R355	1-249-429-11	CARBON MELF	10K	5%	1/5W
R356	1-249-429-11	CARBON	10K	5%	1/6W
R357	1-249-433-11	CARBON	22K	5%	1/6W
R358	1-249-433-11	CARBON	22K	5%	1/6W
R359	1-247-895-00	CARBON MELF	470K	5%	1/5W
R360	1-249-435-11	CARBON	33K	5%	1/6W
R361	1-249-423-11	CARBON MELF	3.3K	5%	1/5W
R363	1-249-417-11	CARBON MELF	1K	5%	1/5W
R364	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R365	1-249-433-11	CARBON MELF	22K	5%	1/5W
R366	1-249-429-11	CARBON	10K	5%	1/6W
R367	1-249-437-11	CARBON MELF	47K	5%	1/5W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R368	1-249-435-11	CARBON MELF	33K	5%	1/5W
R369	1-249-433-11	CARBON	22K	5%	1/6W
R370	1-247-815-00	CARBON MELF	220	5%	1/5W
R371	1-249-441-11	CARBON MELF	100K	5%	1/5W
R372	1-249-441-11	CARBON MELF	100K	5%	1/5W
R374	1-249-429-11	CARBON MELF	10K	5%	1/5W
R375	1-247-816-00	CARBON MELF	240	5%	1/5W
R376	1-247-816-00	CARBON	240	5%	1/6W
R378	1-249-429-11	CARBON MELF	10K	5%	1/5W
R379	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R380	1-249-429-11	CARBON MELF	10K	5%	1/5W
R381	1-249-429-11	CARBON MELF	10K	5%	1/5W
R383	1-249-441-11	CARBON MELF	100K	5%	1/5W
R401	1-249-419-11	CARBON MELF	1.5K	5%	1/5W
R402	1-247-864-00	CARBON	24K	5%	1/6W
R403	1-249-429-11	CARBON	10K	5%	1/6W
R404	1-247-837-00	CARBON	1.8K	5%	1/6W
R405	1-247-828-00	CARBON	750	5%	1/6W
R421	1-249-419-11	CARBON MELF	1.5K	5%	1/5W
R422	1-247-864-00	CARBON	24K	5%	1/6W
R423	1-249-429-11	CARBON	10K	5%	1/6W
R424	1-247-837-00	CARBON	1.8K	5%	1/6W
R425	1-247-828-00	CARBON	750	5%	1/6W
R451	1-247-848-00	CARBON	5.1K	5%	1/6W
R452	1-247-887-00	CARBON	220K	5%	1/6W
R501	1-247-777-00	CARBON MELF	5.6	5%	1/5W
R502	1-249-429-11	CARBON MELF	10K	5%	1/5W
R503	1-247-800-00	CARBON MELF	51	5%	1/5W
R504	1-249-441-11	CARBON MELF	100K	5%	1/5W
R505	1-249-405-11	CARBON MELF	100	5%	1/5W
R506	1-247-791-00	CARBON	22	5%	1/6W
R509	1-249-441-11	CARBON MELF	100K	5%	1/5W
R511	1-249-441-11	CARBON MELF	100K	5%	1/5W
R514	1-249-441-11	CARBON	100K	5%	1/6W
R515	1-249-441-11	CARBON MELF	100K	5%	1/5W
R519	1-247-859-00	CARBON MELF	15K	5%	1/5W
R520	1-249-405-11	CARBON MELF	100	5%	1/5W
R521	1-247-805-00	CARBON MELF	82	5%	1/5W
R522	1-249-429-11	CARBON MELF	10K	5%	1/5W
R523	1-247-783-00	CARBON MELF	10	5%	1/5W
R524	1-249-429-11	CARBON MELF	10K	5%	1/5W
R525	1-249-429-11	CARBON MELF	10K	5%	1/5W
R526	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R527	1-249-437-11	CARBON MELF	47K	5%	1/5W
R528	1-249-429-11	CARBON MELF	10K	5%	1/5W
R529	1-249-423-11	CARBON MELF	3.3K	5%	1/5W
R530	1-249-437-11	CARBON MELF	47K	5%	1/5W
R601	1-247-805-00	CARBON MELF	82	5%	1/5W
R602	1-247-775-00	CARBON MELF	4.7	5%	1/5W
R621	1-247-805-00	CARBON MELF	82	5%	1/5W
R622	1-247-775-00	CARBON MELF	4.7	5%	1/5W
R651	1-249-405-11	CARBON MELF	100	5%	1/5W
R652	1-249-435-11	CARBON	33K	5%	1/6W
R653	1-249-435-11	CARBON	33K	5%	1/6W
R654	1-249-437-11	CARBON MELF	47K	5%	1/5W
R655	1-249-437-11	CARBON	47K	5%	1/6W
R656	1-249-435-11	CARBON	33K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R657	1-249-453-11	CARBON	3.3	5%	1/4W
R658	1-247-783-00	CARBON MELF	10	5%	1/5W
R659	1-249-405-11	CARBON MELF	100	5%	1/5W
R701	1-249-423-11	CARBON MELF	3.3K	5%	1/5W
R702	1-249-417-11	CARBON MELF	1K	5%	1/5W
R703	1-247-849-00	CARBON MELF	5.6K	5%	1/5W
R704	1-247-849-00	CARBON MELF	5.6K	5%	1/5W
R705	1-247-903-00	CARBON MELF	1M	5%	1/5W
R706	1-249-417-11	CARBON MELF	1K	5%	1/5W
R707	1-249-429-11	CARBON MELF	10K	5%	1/5W
R708	1-249-423-11	CARBON MELF	3.3K	5%	1/5W
R709	1-249-414-11	CARBON MELF	560	5%	1/5W
R710	1-249-423-11	CARBON MELF	3.3K	5%	1/5W
R711	1-249-417-11	CARBON MELF	1K	5%	1/5W
R712	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R713	1-247-869-00	CARBON MELF	39K	5%	1/5W
R714	1-249-429-11	CARBON	10K	5%	1/6W
R715	1-249-429-11	CARBON	10K	5%	1/6W
R716	1-249-435-11	CARBON MELF	33K	5%	1/5W
R717	1-249-435-11	CARBON MELF	33K	5%	1/5W
R718	1-247-891-00	CARBON	330K	5%	1/6W
R719	1-247-891-00	CARBON MELF	330K	5%	1/5W
R720	1-247-891-00	CARBON MELF	330K	5%	1/5W
R721	1-247-891-00	CARBON MELF	330K	5%	1/5W
R723	1-247-819-00	CARBON	330	5%	1/6W
R724	1-249-429-11	CARBON MELF	10K	5%	1/5W
R725	1-249-432-11	CARBON MELF	18K	5%	1/5W
R726	1-247-819-00	CARBON MELF	330	5%	1/5W
R727	1-247-859-00	CARBON MELF	15K	5%	1/5W
R728	1-249-429-11	CARBON MELF	10K	5%	1/5W
R729	1-249-441-11	CARBON MELF	100K	5%	1/5W
R730	1-247-859-00	CARBON MELF	15K	5%	1/5W
R731	1-247-801-00	CARBON MELF	56	5%	1/5W
R732	1-247-873-00	CARBON	56K	5%	1/6W
R733	1-249-441-11	CARBON MELF	100K	5%	1/5W
R734	1-247-891-00	CARBON MELF	330K	5%	1/5W
R735	1-247-887-00	CARBON MELF	220K	5%	1/5W
R736	1-247-873-00	CARBON MELF	56K	5%	1/5W
R737	1-247-891-00	CARBON	330K	5%	1/6W
R751	1-249-433-11	CARBON	22K	5%	1/6W
R752	1-249-433-11	CARBON	22K	5%	1/6W
R753	1-249-433-11	CARBON	22K	5%	1/6W
R801	1-247-821-00	CARBON	390	5%	1/6W
R802	1-247-821-00	CARBON	390	5%	1/6W
R803	1-247-837-00	CARBON	1.8K	5%	1/6W
R804	1-247-837-00	CARBON	1.8K	5%	1/6W
R851	1-249-441-11	(Serial No. 101, 651 and later)...CARBON 100K 5% 1/6W			
R852	1-249-433-11	(Serial No. 101, 651 and later)...CARBON 22K 5% 1/6W			
R853	1-249-441-11	(Serial No. 101, 651 and later)...CARBON 100K 5% 1/6W			
RC1	1-235-832-11	ENCAPSULATED COMPONENT(FILTER)			
RV1	1-230-776-11	RES, ADJ, CARBON 100K			
RV301	1-230-066-00	RES, ADJ, CARBON 4.7K			
RV401	1-237-218-11	RES, VAR, CARBON 50K(A)X2			
RV402	1-237-218-11	RES, VAR, CARBON 50K(A)X2			
RV403	1-237-217-11	RES, VAR, CARBON 80X2/100KX3			
RV404	1-237-217-11	RES, VAR, CARBON 80X2/100KX3			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV421	1-237-218-11	RES, VAR, CARBON 50K(A)X2
RV422	1-237-218-11	RES, VAR, CARBON 50K(A)X2
RV423	1-237-217-11	RES, VAR, CARBON 80X2/100KX3
RV424	1-237-217-11	RES, VAR, CARBON 80X2/100KX3
RV451	1-230-679-11	RES, ADJ, CARBON 10K
RV452	1-237-217-11	RES, VAR, CARBON 80X2/100KX3
RV501	1-230-891-11	RES, ADJ, CARBON 20K
S801	1-570-643-11	SWITCH, PUSH (1 KEY)
T1	1-404-458-00	COIL, DISCRI (PRIMARY)
T2	1-404-468-00	TRANSFORMER, DISCRIMINATOR
T501	1-404-612-11	AM IFT
T502	1-404-613-11	AM IFT
X1	1-567-250-11	OSCILLATOR, CERAMIC
X2	1-567-250-11	OSCILLATOR, CERAMIC
X701	1-567-560-11	VIBRATOR, CRYSTAL

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-532-360-XX	FUSE
1-532-419-00	FUSE
*1-556-841-31	CORD (WITH CONNECTOR)
2-259-753-00	BAG, PROTECTION
3-302-708-00	COVER, CONNECTOR
3-310-655-01	SUPPORT (ND), FITTING
3-323-206-01	STOPPER (LARGE)
3-323-208-01	BUSHING, RUBBER
3-323-209-01	BOLT (4-5), STUD
3-323-210-01	ADJUSTOR, STUD BOLT
3-323-211-01	HOLDER
3-323-214-01	BRACKET (LEFT), DRAWER
3-323-215-01	BRACKET (RIGHT), DRAWER
3-323-217-01	HOLDER, BUSHING
3-323-219-01	FRAME, FITTING
*3-323-284-01	MANUAL, INSTRUCTION, BRACKET
3-323-286-01	FRAME, ORNAMENTAL
3-323-287-01	PROTECTOR
3-324-353-01	CARTON, ACCESSORY
3-326-022-01	CUSHION, FIXED, REMOTE CONTROL
3-335-021-01	INDIVIDUAL CARTON
3-335-032-01	CUSHION
3-701-613-00	BAG, POLYETHYLENE
3-701-619-00	BAG, POLYETHYLENE, STANDARD
3-701-626-00	BAG, POLYETHYLENE
3-701-628-00	BAG, POLYETHYLENE
*3-764-378-11	INSTRUCTION
3-765-118-11	MANUAL, INSTRUCTION
X-3320-515-1	BRACKET (RIGHT) ASSY
X-3320-516-1	BRACKET (LEFT) ASSY
X-3320-524-1	SCREW ASSY (A)